FPSC,NTS,PTS,CTS,OTS & DTS MCQs Series

MCQS MINISTRY OF DEFENCE Recruitment Officer's Guide



Soball Rhatti

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Coding and Decoding Test

In this type of questions, words are not written directly. They are written in code The letters do not represent words. themselves but they represent some other alphabets. Thus these letters acquire some artificial value. The value to these letters is not allotted in haphazard way, rather a set pattern is followed. For tackling these questions the examinee should first sense out the pattern or relationship followed by the first sense out the pattern or relationship followed by the letters given in the first set of code word and clear word. He should apply the same rule in decoding the other coded word.

Example: If Early stands for 32567, then Year will mean:

(a)	3725	(b)	7325
(c)	3752	(d)	3257
(e)	3275		

The answer here is '7325', i.e. (b), because E stands for 3. A for 2, R for 5, L for 6 and Y for 7. So the word year stand for 7325.

1.	If 42572 stands for World, then 7252	
	stands for:	

(a)	Dollar	r (b)	Olrd	
(c)	Lord			
(d)	Rold	(e)	Oldr	
Ifw	orship	stands for	1357624	t

- hen 2. Ship stands for:
 - 7642 (b) (a) 6274 6427
 - (d) 7624 (c)
 - 6742 (e)
 - If 35204 stands for Plato, then 043 stands for:

(a)	OPT	(b)	TPO
(c)	TOP	(d)	PTO
(e)	POT		
If W	inter stan	ds for 72	25341 the

en Rent stands for:

(a)	1543	(b)	1453	
(c)	1435	(d)	1534	
(e)	1345			

pain, then 0351	
P	ain, men 0351

- (a) Pnia (b) Naip (c) Aipn (d) Apin (e) Pain
- 6. If 214356 stands for Person, then 4561 stands for-
 - (a)Pore (b)Eopr
 - (c) Lorp (d) Opre
 - (c) Rope
- 7. If Bathe stands for 23541, then Tea stands for:
 - 135 (a) 351 (b)
 - 531 (c) 513 (d)
 - (e) 315
- 8. If 42152 stands for peace, then 4152 stands for:
 - (a) Cape (b) Pace
 - (c) Apce (d) Acpe
 - Aepe (e)
- If Quietly stands for2456789, then 9. Ouiet stands for:
 - 2475 (b) 2547 (a)
 - (c) 2457 (d) 2754
- (e) 2745 If 125430 stands for Curse then 15430 10. stands for:
 - (a) Surce Rusce (b)
 - (c) Cerus (d) Creus
 - Curse (e)
- If Offer stands for 35524 then For 11. stands for:
 - 453 (a) (b) 345 534 435 (d)
 - (c) 354 (e)
- If 43527 stands for Bread, then 7523 12. stands for:
 - (b) Bear (a) Deer
 - (d)Beer (c) Read
 - Dear (e)
- If Wonder stands for 257614, then 13. Done stands for:
 - 5617 (b) (a) 5671 6517 5761 (d) (c)

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								Intel	ligence
254				23.	If S	ystem stan	ds for 2	52146, the	en St.
	(e) 6571		(51)		stan	ds for:			
14.	If 1256 stands	for Mo	ean, then 651.	4	(a)	1426	(b)	2146	
	stand for:				(c)	1246	(d)	1624	
	(a) Name	(b)	Mena		(e)	1642			
	(c) Nwam	(d)	Nema	24	IF	Night stand	ds for	34527. 11	en Tr
	(e) Mane			24.	aton	ds for:		, u	ich In
15.	If 653042stands	for Vo	lume, then 4032	2		743	(b)	347	
15.	stands for:				(a)	374	(0)	517	
	(a) Mleu	(b)	Mule		(c)		(e)	473	
		(d)	Mlue		(d)	437			•
		(u)	mae	25.		125467 star	nus ioi	insieau, ii	nen 235
16	(e) Meul If Small stand	s for A	3522 then A	1	stan	ds for:	(1.)	0.1	
16.		15 101 4	<i>JJ22</i> , mon 14		(a)	Nit	(b)	Sit	
	stands for:	(h)	256		(c)	Ist .	(d)	Tea	
	(a) 562	(b)	625 ·		(e)	Tin	·		633
	(c) 522	(d)	025	26.	If Fa	act stands f	or 4257	, then Fat	t stands
	(e) 652	anda fo	- America the	n	for:				
17.			r America, the		(a)	724	(b)	427	
	1673 stands fo	r. (b)	Rice		(c)	247	(d)	742 ·	
	(a) Icre	(d)	Reci		(e)	472			
	(c) Rcie	(u)	ICCOI	27.	If 1	2345 mea	ins Cla	im, then	1325
10	(e) Irce	te for 3	5214, then Dug		stan	ds for:			
18	stands for:	15 101 5	521 , 1101	,,	(a)	Male	(b)	Lame	
	(a) 513	(b)	351		(c)	Salm	(d)	Palm	
	(c) 153	(d)	531		(e)	Calm			
	(e) 135			28.	If D	ozen stand	s for 35	5712, the	1 DEN
19	9. If 35261 star	nds for	Tears, then 15	3	stan	ds for:		-2	
	stand for:				(a)	213	(b)	231	
	(a) Tes	(b)	Ste		(c)	123	(d)	132	
	(c) Ets	(d)	Set		(e)	312			
	(e) Est			29.	If 1	254376 sta	ands for	r Century	, then
2			39145402, the	n	335	stands for:	20.21		
	Lopist stands				(a)	Yes	(b)	Rut	
	(a) 136524			45 J. S.	(c)	Nut	(d)	Yet	
	(c) 136245		136453		(e)	Run			- 1780
	(e) 136425			30.	If S	omething	stands	for 8234:	56/07,
2			for Efforts, the	n	then	Night stan	ds for:	8-1 10-12-1	
	3457 stands fo		D. 6		(a)	36789	(b)	38967	
	(a) Fort	(b)	Roft		(c)	37896	(d)	38976	
	(c) Frot	(d)	Ftor		(e)	37896		-	then
2	(e) Fotr 2. If 214454362	standa	for Terrorist, the	31.	If 1	37896 24351 star	nds for	Newton,	
?	Error stands f		ior remonst, the	n	351	2 stands for			
	(a) 14454	(b)	41544		(a)	Wont '	(b)	Note	
	(c) 15444	(d)			(c)	Neon	(d)	Tone	
· .	(e) 14445	(-)		1	(e)	Town			

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Intelligence	•
32. If Health stands for 345423 then 3152 stands for:	41. If Fight stands for 74252
(a) Late (b) Heah	41. If Fight stands for 74352, then Fit stands for:
(c) Heat (d) Heal	(2) 472
(e) Hate	(a) 247 (b) 274
	(c) 247 (d) 742 (e) 427
33. If 32114657 stands for Possible, then	
2167 stands for:	42. If Power stands for 72514, then row stands for:
(a) Bose (b) Ebos	(-) 215
(c) Sobe (d) Osbe	
(e) Eosb	(c) 452 (d) 524
34. If Growth stands for 579312, then	(e) 542
Throw stands for:	43. If 54321 stands for Begin, then 521
(a) 21379 (b) 12793	stands for:
(c) 21793 (d) 29137	(a) Beg (b) Beu
(e) 21973	(c) Gin (d) Nib
35. If 215734 stands for Nature, then Near	(e) Bin
stands for	44. If Space stands for 98765 then Ace
	stands for:
	(a) 576 (b) 665
(-) = (15	(c) 566
(e) 4213	(d) 765 (e) 756
36. If Method stands for 432156, then 456	45. If 87654 stands for Great then 354
stands for:	stands for:
(a) Hot (b) Met	(a) Rat (b) Ate
(c) Mod (d) Toe	(c) Get (d) · Tea
(e) Dot	(e) Eat
37. If 321534 stands for Record, then 353	46. If Friday stands for 234567, then Rid
stands for:	stands for:
(a) Ror (b) Dor	(a) 543 (b) 345
(c) Roe (d) Cor	(c) 354 (d) 435
(e) Roc	(e) 534
38. If indeed stands for 123443, then Need	47. If 768123 stands for Prince, then 1823
stands for:	stands for:
(a) 2453 (b) 4423	(a) Rine (b) Cine
(c) 2434 (d) 2345	(c) Pine (d) Rice
(c) 3244	(e) Nine
39. If 75312 stands for Sweat, then 710	48. If Where stands for 34525, then Were
stands for:	stands for:
	(a) 5523 (b) 3552
1-8	(c) 3525 (d) 5325
(c) Sat (d) Eat. (e) Tea	(e) 5235
	49. If 2468 stands for Near, then 4682
40. If Worse stands for 98765, then Sore stands for:	stands for:
	(a) Rena (b) Near
	(c) Earn (d) Nare
	(e) Rean
(e) .5678	

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							1100
		58.	Iſ	4x5x2=	A DECEMBER OF	3x7x2	- BONCA
256	If Slight stands for 426175, then Gist	<i>.</i> 0.	and	6x8x7=87	6. then 9	x4x5=	-123
50.	If Slight stands for 420110			ices:			
50.	stands 101. (b) 6845		(a)	954	(b)	495	
	4586 5486		(c)	459	(d)	459	
	(c) 8645 (c)	50	1624	+35=28.	15+49=2	A and a	-
	(e) 4568 Which choice mentions the last letter Which choice mentions the following:	59.	11 24	69+37=?	15 47 2	- and 2	1+48=48
c 1	which choice mentions the last fellowing:						
51.	Which choice mentions the following: of the required word in the following:		Cho	ices:	(1.5		
	of the required word in the remains for If C E N P B D S U N P Q S stands for		(a)	56	(b)	69	
	If C E N P B D S O N I Q D D C T D D O C T V Q S R T D		(c)	50	(d)	38	2
	F stand for?	60.	Inser	rt the miss	sing figu	re:	1
	F stand for	00.	82(5	4) 35, 48	(46) 25,	71(58)	46. 960
	Choices: (a) S (b) E			() == ,		. ,	-, , , , , , , ,
	(a) 5 (c)		62				
	(c) R			ices:	(b)	68	
	(Hint : NURSE is the word).		(a)	45			
52.	If Loste is coded as 1357 and Gain is		(c)	70	(d)	36	1) 07
	coded as 2468, what do the figures	61.	34 (.	30) 26, 42	2 (35) 28	. 29 (4	3) 86, 48
	84615 stand for?	1999-1999 (1999) 	(?) 2	6,			
	Hint: Letters of alphabet are given			ices:			
	arbitrary values in terms of digits, as L		(a)	42	(b)	24	
	is represented by 1, 0 by 3, S by 5 and		(c)	37	(d)	90	
	so on.	62.	If 33	x8=42. 62	(4=23 ar	nd 8x6	=34 the
53.	If Case is coded as 5231,	02.	2x4=		-		
	CHAIR is coded as 5 8 2 0 6, and			ices:			
	TEACH is coded as 7 1 2 9 5 8				(b)	30	
	Then what does 586037 stand for?		(a)	26	(d)	25	
54			(c)	21	· · · · · · · · ·		in th
	does the following umber stand for?	63.	Inser	rt the r	nissing	Inguie	
	4, 2, 17, 21, 2, 10, 15		follo	wing patt	em of fi	guies.	7 3 6?
55		63.	35	8 7 2 6	254	01	1 3 0
	CHAIR is coded as Z O S J Y.		Cho	ices:			
	MAN is coded as P S L	200	(a)	4	(b)	3	j.
	Then, what does P M L S Y Z O X	4	(c)	5	(d)	6	
	stand for?	64.	100 Contract (100 Contract)	8929	7845	23	514:
56				ices:			
	Then 8=?		(a)	4	(b)	3	
	Choices:	818 m	(a) (c)	5	(0)		
	(a) 24 (b) 32	65.	If	5	3+5	8=17	_
	(c) 16 (d) 20	05.		0 00 1		=")	3
57	If Black is coded as 58301 and White is			2 = 22 the	n 8-4	•	
	coded as 42697, what do the furning		Cho	oices:		16	
	02381 stand for? Name the last letter of	Constant of	(a)	18	(b)		
	the clear word:		(c)	12 x6=23, 6x	(d)	20	then Sx4
	Choices:	66.	If 4:	x6=23, 6x	2=31, 23	8=14	
	(a) H (b) A			5			
	(c) K (d) C		Che	oices:			
	(u)			32	(b)	42	
	Α.		(c)	24	(d)	48	
		1600 Calif.	/		1000		

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Intel	Igenice						
67	If	14x25=5	5241,	32x	17=7123,		75.
0/.	78x1	9=9187 th	en, 46x.	32=	,		15.
	Choi	ces:					
	(a)	6423	(b)	3246			
	(c)	2364	(d)	2346			
68.	1	1=15, 512	k34 ,47,	41x52	=37 then		
	82x5	3=?					1.
	Choi						5.
		64	(b)	68			9.
		1300	(d)				13.
69.	If	3+2=7,	4+3=	10,	5+4=13,		17.
	6+5=	=16 then	7+6	=? .	,		21.
	Choi	ices:					25.
		18	(b)	14			29.
	(c)	16	(d)	19			33.
70.	If 6	4x34=32,	84x42	2=41, 0	64x36=33		37.
		26x36=5					41.
	Cho	ices:					45.
	(a)	31	(b)	23			49.
		13					52.
		71 and					54. 56.
	22 Contraction 2010	(1) "JA					50. 60.
					UM ROM	1.5	64.
		AM" mea				. *	68.
		"NAM K					72.
				FAM	OUAM"		
		SAT THE			are not		- • (
Not	le: I	ne words	in c	apitals	are not e words in		
cod		y in the sa	ine orde		c words m	1	
71.		a" in code	ic				e d'
	(a)	KAAM		SUN	A		11
3	(c)	ROM	(d)	AAI			
72.		OFFEE" in					41 (141) 20
	(a)	14)	(b)		N	•	1.5
2	(c)				i.		in the
73	. If P			s Rpvo	dide, then	· .	•
1	Sug	gestion w					· 1
(a)		geseitno	(b)		gsgitno	. /	7
74	Us	ggseitno	(d)	Uss	eggitno		1.37
	Part I	Brokerage	is code	d as H	Egarekobr,		1
	the	n Traveller	would	be code	ed as	1	
	(a) (b)	Weirlya		si	121. 8		<i>.</i>
1	(b)		t the abo		avetr (5.	1 1	5. e
	. (0)	Relleva	rt (d)	Kei	levatr	1	2

76	1000						251
75.	If, in a map, south-east becomes north, south-west will become						
	(c)	East		• /	Wes		
		Lasi		(d)	Sou	th	
			Ansv	vers			×.,
1.	(c)	2.	(c)	3.	(c)	4.	(b)
5.	(e)	6.	(c)	7.	(c)	·8.	(b)
9.	(c)	10.	(e)	11.	(c)	12.	(e)
13.	(e)	14:	(a)	15.	(b)	16.	(¢)
17.	(b)	18.	(c)	19.	(d)	20.	(b)
21.	(a)	22.	(a)	23.	(b)	24.	(a)
25.	(b)	26.	(c)	27.	(d)	28.	(e)
29.	(e)	30.	(b)	31.	(d)	32.	· (c)
33.	(d)	34.	(b)	35.	(d)	36.	(c)
37.	(a)	38.	(a)	39.	(c)	40.	(d)
41.	(d)	42.	(d)	43.	(e)	44.	(d)
45.	(a)	46.	(b)	47.	(e)	48.	(c)
49.	(c)	50.	(c)	51.	(b)		
52.	(NA	ILS)	53. (CHR	IST)		
54.	(CA)	PTAIN	J) 55.	(MC	NAR	CHY)	К
56.	(b)	57.	(c) [.]	58.	(c)	59.	(c)
60.	(b)	61.	(c)	62.	(c)	63.	(b)
64.	(c)	65.	(b)	66.	(b)	67.	(c)
68.	(b)	69.	(d)	70.	(c)	71.	(d) ·
72.	(c)	73.	(c)	74.	(d)	75.	(c)
	· · · · · · · · · · · · · · · · · · ·						

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258	Matching and R	elati0	nship Test
	Matching and R		LEOP ()OR
	ite is to?	13.	
	Escort is to visitor as a guide is to? Student (b) Monument		
1.	(a) Student (b) Monument		(c) ACD (d) ASP FLA()OOK
	(a) Student (b) Methation (c) Sport (d) Destination	14.	
	(c) Sport (d) Decta Butter is to bread as bark is to? (b) Tree		
2.			(c) PH (d) TE
	(a) Horse (d) Shed	15.	BE ()ASS
	(c) Skin (c) stopest as horse is to?		(a) IM (b) OM
3.			(c) AM (d) EM
	(a) Ride (1) Stable	16.	Author is to book asis to Satue
	(c) Gallop (d) Stable Choose a word from PLOWSHARE	0.5000	(a) Pilot (b) Sculptor
4.	from the following:		(c) Trees (d) Brush
	(D) Shows	17.	Bed is to Bedroom as Lock is to
	(a) plywood	17.	(a) Spoon (b) Almirah
·	(c) Lowest (d) Thy were from Choose a word from VULTURE from		(a) Key (d) Brush
5.	the following;	18.	Pen is to ink as ink is to
	(a) Tear (b) Ullia	10.	(a) Table (b) Pencil
	(a) (d) Vulcan		(d) Scale
6.	(c) Lure (d) IRREGULAR Choose a word from IRREGULAR	In pa	, cuto following questions, a worup
0.	from the followig		Coloct trom the given unertain
	(a) Deligon (b) relative	the v	word that most suitably completes the
	Decular (d) Religious	prob	lem.
7.	(c) Regular (d) NEUTRAL from Choose a word from NEUTRAL from	proof	T las
	the following:	12	Brother and Sister;and dudg.
	(a) Nor (b) New		(a) Sun (b) Sun
	(a) Neat (d) NOL		
- 8.	If 42152 stand for PEACE, then 4152	The	(-) i (aon' i p (b), 1) """
	stand for; (a) ACPE (b) PACE		
	(a) HOLE (J) CADE	so w	
	(c) AACE (d) CAPE If SYSTEM stands for 252146, STEM	19.	Test and cottee Dicau and
· 9.			(a) Brick (D) Die
	stands for; (a) 1642 (b) 1246		(c) Bones (d) Beam
	(a) 1042 (b) 1240 (c) 2146 (d) 1624		(-) –
10.		20.	A Book and State
10.	stands for		(a) Pilot (b) Trees
	(a) 531 (b) 153	1.1	(a) Driver (d) Stone
	(c) 351 (d) 135		(e) Sculptor + Monastry
11.		21.	(c) Differ (e) Sculptor and Church, Monk and Monastry (a) Painter (b) Administrator
	stands for;	21.	(a) Painter (b) Admin (d) Brahmin
	(a) 315 (b) 135	*	(c) Artist (d) Brann
100 L	(c) 513 (d) 531		(e) Priest prother
. 12	ABCD ;DCBA;WXYZ;?	22.	(e) Priest Niece andSister and Brother Aunt (b) Aunt
	(a) XZYW (b) YZYW		(a) Cousin (b) Uncle
	(c) ZYXW (d) WXYZ		(a) Cousin (b) Uncle (c) Daughter (d) Uncle
		1. C. A.	

in the second

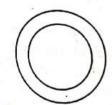
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Inten				
-	(0)	Nephew		
	a	nd Table,	Flour and	d Bread
23.	(a)	Barley	(b)	Meal
	(c)	Curry	(d)	Oil
	(e)	Wood		
-	Red a	and Bedro	om, Locl	k and
24.	(a)	Spoon	(b)	Key
	(c)	Bottle	(d)	Almirah
	(e)	Brush		
25.	Dese	rt and Car	nel, Lior	and
25.	(a)	House		Stable
	(c)	Den	(d)	Store
	(e)	Nest		
26.		and Calf,	Kitten a	nd
	(a)	Rat	(b)	Crow
	(c)	Horse		Lamp
	(e)	Cat		
27.	Pen	and Ink, I	nk and	
	(a)	Stamp		Pot
		Scale	(d)	Pencil
		Table		
28.	•	ee and For		
	(a)	Five	(b)	Week
	(c)	Night	(d)	Year
	• •	Noon		
Re	lation	ship amor	ig Classe	es of Things

In this part, you are to choose from five diagrams the one that illustrates the relationship among three given classes better than any of the other diagrams offered. There are three possible relationships between any two different classes: Example:

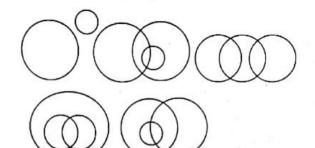


Indicates that: One class completely contained in the other but not vice versa

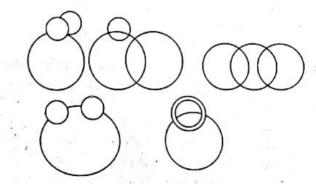
Indicates that:

Neither class is completely contained in the others but the two do have members in common

Indicates that: There are no members in common.



- 29. Metals, Iron, sulphur
- 30. Males, squirrels, chipmunks
- Musicians, oboists, 31. science-fiction enthusiats
- 32. Actresses, Human females, golfers
- 33. Communication devices, telephones, eating utensils
- 34. Comedians, entertainers, mimes
- 35. Two-legged animals, jungle animals, jungle bipeds
- Dogs, cocker spaniels, showdogs 36. Use these choices for questions 37-43



- Daisies, flower, cherries 37.
- senators, Members of Congress, 38. Republicans
- The human race, human adults, 39. females

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260	
40. 0	Cinnamon, spices, cloves
40. C	Diamonds, precious stones, emeralds
42 7	The universe, our solar system, the
	earth
43. I	Radicals, energy conservationists,
-1J. 1	reactionaries
Facho	uestion or group of questions is based
on a	passage or set of statements. In
answe	ring some of the questions, it may be
usoful	to draw a rough diagram. Choose the
host a	nswer for each question.
	ions 44-46
	s are either A's or B's.
	'S are C'S.
	s are C'S.
	's are H's.
	C's are H's.
	ll H's are C's.
	Which could not be true?
	No G's are C's.
	No G's are A's.
	No H's are C's.
	No G's are B's.
1	(a) I only (b) H only
	(c) III only (d) IV only
	(e) I and IV only
45.	Which is inconsistent with the above.
	set of statement?
I	Some H's are A's.
II.	Some H's are B's.
III.	Some H's are neither A's no B's.
IV.	All G's are A's.
V.	Some H's are G'S.
	(a) I and V only
eu	(b) II and V only
	(c) II and III only
	(d) IV only (e) V only
46.	If all D's are either A's or B's, then
	which of the following is necessarily.
	talse?
	(a) All D'S are C'S
	(b) All A'S are D's
0 s	(c) Some B's are D's
	(d) All D's are H's
	(e) All H's are D's
. 47.	Many more people who smoke
Sec. 1	develop lung cancer than do those who
	do not smoke.
1900 and 1	In the face of this evidence, how could

a cigarette company representative argue against the conclusion the cigarette smoking causes lung cancer?

- (a) He could argue that many things might cause lung cancer.
- (b) He could argue that a single cause may be responsible both for the smoking and for the cancer.
- (c) He could argue that people have the right to endanger themselves if they so choose.
- (c) He could argue that people who breathe die, yet no one accuses breathing of causing death.
- (d) He could argue that people will smoke anyhow, regardless of the evidence.
- 48. Women are the equals to men in every activity, including tennis. It's true that Bobby Riggs beat Margaret Court, but he played like a woman and she played like a man.

The main problem with this argument is:

- (a) It is biased toward feminism
- (b) It assumes that Margaret Court is the best woman player.
- (c) It confuses people with playing styles.
- (c) It assumes that all women ought to play the same way.
- (d) It assumes the women are equal to men, and thus constitutes circular reasoning.

Questions 49-52

All the roads in City Y are either perpendicular or parallel to one another. The roads are all straight. Roads A, B, C, Q, and E are parallel to one another. Roads G, H, I, J, K L and M

K, L, and M are parallel to one another. Road A is 1 mile east of Road B. Road B is ¹/₂ mile west of Road C. Road D is 1 mile west of Road E. Road G is ¹/₂ mile south of Road H. Road I is 1 mile north of Road J. Road K is ¹/₂ mile north of Road L. Road K is 1 mile south of Road M.

- Road I is 1 mile north of Road L. (a)
- Road D is 2 miles west of Road (b) Β.
- Road E and Road B intersect. (c)
- Road M is 1 1/2 miles north of (d) Road L.
- Road D is at least 2 miles west of (e) Road A.
- If Road E is somewhere between 50. Roads B and C, then which of the following is false?
 - Road D is less than 1 mile from (a) Road B.
 - Road C is less than 1 1/2 miles (b) from Road D.
 - Road E is less than 1 mile from (c). Road A.
 - The distance from Road E to (d) Road B added to the distance from Road E to Road C is 1/2 mile.
 - Road D is 2 miles west of Road (e) Α.
- Which of the following possibilities 51. would make two roads coincide?
 - If Road L is 1/2 mile north of (a) Road L.
 - If Road D is 2 mile east of Road (b) Α.
 - If Road I is 1/2 mile north of Road (c) K.
 - If Road C is 1 mile west of Road (d) D.
 - If Roads E and B are 1/2 mile (e) apart or Roads H and J are $\frac{1}{2}$ mile apart.
- 52. If Road X is parallel to Road I and Road X is 1/2 mile south of Road J and I mile north of Road G, which two roads would be 1/2 mile apart?
 - (a) X and H I and X (b)
 - (c) J and H J and G (d)
 - (e) I and G

ŧ

53. If is immoral to blame people for what they do. They are simply behaving as they have conditioned to behave and have no choice in the matter. Blaming them will never change their behavior. The author undercuts his own argument by

- Adopting dubious psychological (a) theories
- (b) Undermining morality
- Attacking human freedom (c)
- (d) Arguing emotionally
- Doing what he argues against (e)
- 54 A line cannot be divided everywhere; therefore, it can't be divided anywhere. Which of the following most closely parallels the above piece of fallacious reasoning?
 - (a) Nobody likes anybody; therefore, everybody likes nobody.
 - Asif can do every problem in this (b) book; so Asif can do all of the problems in this book.
 - There are some problems Asif (c) can't do; therefore there are no problems Asif can't do.
 - Any time he's at bat, Bill can hit (d) a homer; so Bill can hit nothing but homers.
 - No number can be divided by (e) every number; therefore, some number can be divided by no number.

Questions 55-58

A five member research group is chosen from mathematicians A, B, C, and D and physicists E, F, G and H. At least three mathematicians must be in the research group. However.

A refuses to work with D.

B refuses to work with E.

- F refuses to work with G.
- D refuses to work with F.
- If B is chosen, who else would have to 55. be in the group?

(b)

G

- F (a)
 - (C) (d) (c) A D
- If G is rejected, which other member 56. could not work with the group? B (b) A (a)

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262			
57.	(c) C (e) D If B and C	(d)	F
57.	necessarily true		sen, which is
	I. A is Chosen.	•	
	II. D is chosen.		
	III. Either F or	G is cho	sen.
	(a) I only	(b)	II only
	(c) III only		II and III only
	(e) Neither I		
58.	If H is chosen,		iust be true?
	I. A must be ch		
	II. B must be c III. G must be		Sec. 1
	(a) I only	(b)	II only
	(c) III only		I and III only
	(e) Neither		
	Find the odd n		-
59.	(a) Moan	(b)	Laughter
	(c) Sobs	(d)	
60.	(a) Dagger	(b)	Spear
~	(c) Knife	(d)	
61.	(a) Fine	(b)	
62.	(c) Lovely(a) Swing	(d)	Captain
02.	(a) Swing (c) Frustrate		
63.	(a) Unicorn		Animal
	(c) Engine		Octagon
64.	(a) France	(b)	Spain
1	(c) Denmar		Mongolia
65.			g pairs are most
	unlike the othe		riego ante de la composición de
1.5	(a) Cold and (b) EAST at		Carth 1922 👘 🖷
1.5	(c) Short an		and the second
	(d) Near and		sealt .
66.			of pair which is
	different from		
	• • •	and Serva	
	(b) Flower		the second se
1	(c) Algebra (d) Chemis	and Mat try and S	
In	the Questions		
ch	oice that should	d be fil	led up in the
bla	ank.		
67	0		
	(a) Hour (c) Alarm	(b)	Time
-455	(c) Alarm	6- C	Watch

			Intelligence
68. •	Hard work is to s	success	s as treatment is
	to		and it is
	(a) Cure		
	(c) Illness	(d)	Medicine
69.	Moon is to brigh	tness a	s ornament is to
	(a) Gold		
	(c) Luster		
70.	England is to Eu	rope as	s India is to
	(a) Pakistan	(b)	China
	(c) America	(d)	Asia
71.	Education is to il	literate	e as medicine is
	to		
	(a) Eat	(b)	Patient ·
	(c) Dispensary	/ (d)	Doctor
72.	Four is to April a	s 7 is 1	to
	(a) July	(b)	Day
	(c) week	(a)	WOILI
73.	Bee is to swarm a	as anin	nal is to
	(a) Group	(b)	Cattle
	(c) Herd	(d)	Flock
74.	Come is to go as	entran	ce is to
	(a) Gate(c) Leave	(b)	Exit
75			Returh
75.			
	(a) Month(c) Eat	(0).	Food
In a	uestions 76 to 8		
	ls in their proper		
	ningful sentences.		
76.	Professions all		ing of the is
	noblest.		
77.	Pakistan of there	scarcit	ty a scientists is
1992	in.		
78.	The Pakistan's o	of econ	omy backbone
	is agriculture.		· · · · ·
79.	Science electric	wond	erful lamp of
00	invention is a.		1 . J. him
80.	Workshop hard	work	and made nin
600	honesty capable of	of a sma	all setting up of
81.	own his. What lives in wi	ntor d	ies in summer
01.	and grows with it	roots	unward?
82.	Why does the le	an ve	ar come every
-	four years?	ap ye	
83.	Which is the heav	viest lie	uid?
84.	Which device	is cor	nmon to the
C.	following?		
·	(a) An electric	bell	

Scanned with CamScanner

	(b) Telephone
	(c) Telegraph (d) Generator
85.	What have the following in command?
0.	(a) Volt (b) Ampere
	(c) Ohm
86.	AZ CX EV?
00.	(a) UB (b) GT
	(c) DW (d) EV
87.	ACE BDF CEG?
07.	(a) DEM (b) CED
	(c) CED (d) DFH
88.	If GLAD is encoded as INCF, how will
00.	STRANGE be encoded?
89.	If MARE is encoded as KCPG, how
07.	FULFILLED be encoded?
90.	If PLAN means ABCD, LAND mhans
<i>J</i> 0.	BCDN, SPAN means MACD, what
* 1	does NASAL mean?
91.	Think of a letter, which if replaces 'E'
<i>,</i>	in the following words, farms new
	words. BED, HERD, MET, SET.
92.	
	introduced into the body of the
	following words may form new words
	TRACK START TALL TEASE.
93.	Think of a single letter which when
	introduced into the body of the
	following words forms new words,
	HER BED SET COT
94.	Inset such a word in each of the
	brackets that could complete the first
	word and start the second.
	(a) $Sn()$ V
	(b) S () I
	(c) $T() OW$
95.	Insert a word the means the same as the
	two words outside the brackets.
	Weapon () kneel
96.	
	Paper (weight) lifter
	(a) Over () over
	(b) Hand () turn
	(c) Strap () orchestra
97.	Underline the word in the bottom row
	that goes with all the words in the top
	now.
	Side cast let moded dated
* .	Over out in able take

bide	oust	100		
Over,	out	in,	able	take

Find out the right equivalent:

- 98. (i) B is either F or H or I,(ii) B is not H.Therefore.
 - (a) B is not F, (b) B is not I,
 - (c) No conditions can be drawn.
 - (d) B is either F or I.
- 99. If 6 plus 2 make 9 write 'yes' unless 16 divided by 2 makes 8 in which case write 'No'.

Choices:

- (a) No, (b) 'Yes'
- 100. If 8 added to 6 exceeds 16 write 25 unless 5 and 9 exceeds a dozen, in which case write 50.

Choices:

- (a) 50 (b) 25.
- 101. If ¼ when multiplied by 12 makes 2 write X; unless ¼ when divided by 1/24 equals half a dozen, in which case write Y.

Choices:

- (a) False (b) Y.
- 102. (a) All clothes are shirts
 (b) All shirts are red.
 There fore,
 (c) All clothes are not red.
 Choices:
 - () Estas (b) Trav
- (a) False (b) True. 103. Mercury is to Pluto as A is to
 - (a) Y (b) X
 - (a) Y (b) X (c) Z (d) B
- 104. Brush is to trowel as paint is to
 - (a) Tree (b) Fruit
 - (c) Mortar (d) Banana
- 105. Pariah is to favourite as ostracism is to
 - (a) Insolence (b) Precedent
 - (c) Climax (d) Nepotism
- **Test of Alertness:**
- 106. Complete the series: AACBBBDCCCE -----, -----, Choices: (a) FE (b) ED
 - $\begin{array}{ccc} (a) & EE & (b) & ED \\ (c) & DE & (d) & DD \end{array}$
- (c) DE (d) DD
 107. Ali is 20 years younger than 3/5 of his actual age. What is the present age of Ali?

108. If DEAR is coded as O M K N,

And LEAK is coded as X M K Y,

Then how will you encode the word LEADER? Choices:

- (a) YKMONM
- (b) MXOKMN
- (c) XMKOMN
- (d) XMKONM
- 109. Which choice mentions the last letter of the word re arranged from the following jumbled spelling:

R E S O S T R U -----(A garment) Choices:

(a) U (b) O

(c) R (d) S

110. Javed increases his speed half as much again and Usman increases his twice as much again. If the initial speed was 8 miles per hour, what is the difference in their speeds at the end?

Choices:

(a) 4 miles (b) 12 miles

(c) 2 miles

111. What letter is the fourth letter to the left of the letter that is midway between O and M in the word CARDIOGRAPH. Choices:

> (a) I (b) R (c) D (d) O

112. In a partitioned room there are cats and fowls. They have 15 heads and 50 feet. How many cats are there?

Choices:

- (a) 12 (b) 13
- (c) 10 (d) 14
- 113. A is 5 years younger than B who is 3 times as old as old as C. If C was 10 years old 4 years back, how old will be after 6 years?

Choices:

- (a) 40 years (b) 30 years (c) 37 years (d) . 35 years 114. Find the valve of X in the following: 9 1 25 64 16 4 х 81
 - 25 9 49 100 Choices: (a) 121 (b) 36 (c) 25 (d) 49 A mare does not always 1
- 115. A mare does not always have a -----

- (a) Teats (b) Teeth
- (c) Colt (d) Tail
- 116. Find a number which when divided by 4 exceeds 80 by as much as it short of 160 now.
- 117. Which pair of numbers is dissimilar to others in the following?
 - (a) 533-527 (b) 461-457
 - (c) 223-214 (d) 13-5
 - (e) 318-313
- 118. In the series 67, 57, 52, 42, 37, 27, 22, X, Y.
 - (a) X stands for 12 and Y stands for 7
 - (b) Y stands for 12 and X stands for . 7
 - (c) X stands for 5 and Y stands for 15
 - (d) Y stands for 7 and X stands for 15

Choices:

- (a) The statement at D is correct
- (b) Only the statement at A is correct
- (c) Both the statements at A and D are correct
- (d) The statement at C is correct
- 119. Two numbers consist of the same two digits in reverse order. If the difference between the two numbers is 54, what are the two numbers?
- 120. My age is ³/₄th of my brother's age and the difference between our ages is 6 years. My brother's age must be --**Choices**:
 - (a) 36 years (b) 14 years
 - (c) 24 years (d) 28 years
- 121. Find the group of missing letters in the sequence given below.
 - aa bb ab bb
 - Choices:
 - (a) abab (b) abaa
 - (c) bbab (d) aaab
- 122. Name the choice which will fit in the blank space---

xxy - xy - xxyy -

- Choices:
- (a) xyx (b) yyy (c) xyy (d) yxx

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- 123. A student was required to multiply a number 2 and add 3 to it. He, instead added 3 to it first and then multiplied by 2. If the answer he got was 20, the correct answer would be Choices:
 - 19 (a) (b) 23
 - 17 (c) (d) 20
- 124. Ali walks 1 km. East of his house, then 1 km. North, 2 km. East, 3 Km. South and 3 km. West. To reach his house, he must walk---

Choices:

- (a) 1 km. South
- (b) 2 km. South
- (c) 2 km. North
- 1 km. North (d)
- 125. If Nuri is taller than Guni and Asma is also taller than Guni then---

Choices:

- (a) Guni is tallest
- Nuri is tallest (b)
- It cannot be concluded from the (c) above statements as to who is the tallest
- Asma is tallest (d)
- 126. Suppose is an imaginary mathematical system, addition is represented by the symbol (x), subtraction by (÷), multiplication by (+) and division by (--) in this system what is the value of the following expression 300+5-15x7

Choices.

CHU	ices.			
(a)	16	(b)	300	
(c)	1625	(d)	107	

127. If 2 eggs boil together in one minute, in how much time will 10 eggs boil if put together in the same pan? Choices:

> (a) minutes (b) 1 minute

- (c) 5 minutes
- 128. A. All girls do not like to marry. B. Some girls do not marry. If the above two statements are true, state which of the following statements (X) and (Y) are valid? (X): All girls like to marry.
 - (Y): All girls do not marry.

Choices:

- (a) Both (X) and (Y) are valid,
- (b) (X) is valid
- (c) (Y(is valid
- Both (X) and (Y) are invalid (d)
- 129. If PAINT is coded as 74128 and EXCEL is coded as 93596, then how could would you encode ACCEPT? Choices:
 - (a) 735961 (b) 554978
 - (c) 455978 (d) 547978
- 130. A student has thrice as many wrong sums as he had right. If he attempted 32 sums in all, how many did he solve correctly?
 - Choices: (a) 4

8

(b)

6

- (c) 131. Name the two choices which are composed of the same digits.
 - (1)74281 (2)71854 (3) 64253 (4)24187 (5)26518 (6)48256 Choices: (a) (6)(3)(b) (1)(2)
 - (c) (1)(4)(d) (5)(2)
- 132. In the series 45, 35, 30, 20, 15, P, Q (X) Q stands for -5(Y) P stands for +5Choices:
 - (a) Both statements are correct
 - Statement Y is correct but X is (b) incorrect
 - Statement X is correc (c)
 - (d) Statement Y is correct
- 133. If 8514 stands for BEAD and 3165 stands for LATE, then which choice stands for the word TABLE? Choices:

(a)	61853	(b)	61544
(0)	61025	2.15	

(c)	61835	(d)	86145
		· ·	

134. Two numbers are in the ratio 1:5. If 5 is added to each number, their ratio becomes 1 : 4. State the number of the choice which gives the correct pair of numbers>

Ch	oic	es:

(a)	20, 100	(þ)	10, 50
(c)	16, 80	(d)	15, 75

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- Choices:
- (a) 400 (b) 300
- (c) 100 (d) 200
- 136. There is some similarity in the three of the following groups in each column, but the fourth is different in some way. State numbers of the dissimilar groups.

A			В
1. K	LPO		1. T S W X
2. B	CGF		2. OPTU
3. R S V W			3. FEIJ
4. MNRQ			4. ONSR
Cho	ices:		
(a)	A 2, B1	(b)	A 1, B3

- (c) A 3, B3 (d) A 4, B2
- 137. All beggars are poor. Which of the following statements expresses a conclusion that logically follows from the above statement?

Choices:

- (a) If A is rich then A is not a beggar
- (b) If A is not rich, then A is not a beggar
- (c) If A is a beggar, then A is not rich
- (d) All those who are poor are beggars
- 138. Re-arrange the spellings of the following words to form sensible words and state the number of choice which gives the last letter of the correct word.

SOLVELARMU-----(Wonderful) Choice

U

S

- (a) N (b)
- (c) A (d)
- 139. Write the number of the pair which is differer from the other pairs in the follc vi ::
 - (a) M. rcury and Barometer
 - (b) O: and Bottle
 - (c) Arrow and Quiver
 - (d) Letter and Postman
- 140. (A) No pilots are free from accidents.

(B) All pilots are human beings.

If the above two statements are correct, then

- (X) No human beings are free from accidents.
- (Y) An expert pilot is free from accidents.

Choices:

- (a) Both X and Y are valid
- (b) Y is valid
- (c) Neither X nor Y is valid
- (d) X is valid
- 141. Name the serial number out of the following groups of letters forming a pair which consist of the same letter of the alphabet:
 - (a) OYGMR
 - (b) GMRVY
 - (c) LZWDR
 - (d) JCHQN
 - (e) BETQK
 - (f) HQNJC
 - (g) BTPKE
 - (h) DLSWZ
- 142. Read the statements below, carefully paying attention to their relation to one another. Then next to each statement mark (a), (b), (c) or (d) as indicated.
 - (a) If the statement contains the central idea around which most of the statements can be grouped.
 - (b) If the statement contains a main supporting idea or the central idea.
 - (c) If the statement contains an illustrative fact or detailed statement relating to main supporting idea.
 - (d) If the statement contains an idea or ideas which are irrelevant.
- 1. The Roman roads connected all parts of the Empire with Rome.
- 2. The roman roads were so well built that some of them remain today.
- 3. One of the greatest achievements of the Romans was their extensive and durable system of roads.

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Intell	Intelligence						
4.		thy tra horse-c				an tii	nes
5.	Along Roman roads caravans would bring to Rome luxuries from						
	Alexa	andria		e East	•		
6.		esent d are ori			ne of	the ro	oads
	Answers						
1.	(b)	2.	(b)	3.	(b)	4.	(b)
5.	(c)	6.	(c)	7.	(c)	8.	(b)
9.	(c)	10.	(b)	11.	(c)	12.	(c)
13.	(c)	14.	(b)	15.	(c)	16.	(b)
17.	(c)	18.	(c)	19.	(e)	20.	(e)
21.	(e)	22.	(e)	23.	(b)	24.	(c)
25.	(c)	26.	(e)	27.	(d)	28.	(b)
29.	(a)	30.	(c)	31.	(b)	32.	(b)
33.	(a)	34.	(d)	35.	(e)	36.	(d)
37.	(a)	38.	(b)	39.	(b)	40.	(d)
41.	(d)	42.	(e)	43.	(c)	44.	(c)
45.	(e)	46.	(e)	47.	(b)	48.	(c)
49.	(d)	50.	(e)	51.	(c)	52.	• •
53.	(e)	54.	(d)	55.	(d)	56.	(e)
57.	(c)	58.	(b)	59.	(b)	60.	(d)
61.	(d)	62.	(c)	63.	(d)	64.	(d)
65.	(b)	66.	(a)	67.	(0)	72	(a)
69.		70.		/1.	(0) (4)	12.	(4)
73.	(d)	74.	(b)	75.	(a)	ina i	s the
1.		all the	e profe	SSIONS	steaci	mig i	5 110
2.	nob	ere is		reity	of sc	ientis	ts in
2.		tistan.	a sca	licity	01 00	6 - 18 h	*
3.	Aor	ricultu	re is t	he ba	ckbon	e of]	Pak's
	eco	nomy.					
4.	Ele	ctric la	amp is	a wor	nderfu	l inve	ntion
	Electric lamp is a wonderful invention of science.						
. 5.	Third Work and homerly						
	capable of setting up a small workshop of his own.						
6.	(sr	now)	L., 1				2
82	2. Ev	very 4th	n year	has 36	6	in the	
83		lercury				141	
no.		4	We pro	vide Pre	paratio	n Matei	rial 4 All 1
			http	s://doo	c4shai	res.co	m/ & Lil

85.	(Elec	tricity)86.	(ii)		
87.		88.		CPIC	;)	
89.	(DSJ	DGJJ	CB)	90.	(DCN	ACB)
91.	(A)	92.	(T)	93.	(A)	
94.	(ear)	95.	(attac	ck)		
96.	out	97.	Out	98.	(d)	99. (a)
100.	(a)	101.	(b)	102.	(a)	
103.	(c)	104.	(c)	105.	(d) ·	106. (d)
107.	(50 y	ears)	108.	(c)	109.	(c)
110.	(b)	111.	(c)	112.	(c)	113. (c)
114.	(c)	115.	(c)	116.	(120))
117.	(c)	118.	(c)	119.	(28, 82	2)
120.	(c)	121.	(a)	122.	(c)	123. (c)
124.	(c)	125.	(c)	126.	(d)	127. (b)
128.	(d)	129.	(c)	130.	(c)	
132.	(d)	133.	(c)	134.	(d)	135. (d)
136.	(c)	137.	(c)	138.	(d)	139. d)
140.	(c)		(d) &			
142.	1(b) 2	(b) 3(a	a) 4(d)	5(c)	6(d)	

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Language Proficiency Test

In each question, a word is given and below are given a series of other words which can be formed from the word given in the question. Of these other words, there is one word that cannot be formed from the word in the question. You have to select that word. An example is given below.

Example:

BEAUTIFUL

(a)	But	(b)	Beat
(c)	ERT	(d)	ATE
(e)	Bear		

The answer here is 'Bear', i.e., (e). The word 'r' does not appear in the word 'Beautiful'. Hence (e) is the answer.

1.	TOILET

		~~	-			
	(a)	Т	oll	(b)	Tot	
	(c)	L	et	(d)	Toil	
	(e)	Т	`oe			
2.	RHE	ETC	DRIC			
	(a)	R	ot	(b)	Rhetor	
	(c)	Т	onic	(d)	Rite	
	(e)	R	oe			
3.		AT	EGY			•
	(a)	Т	ear	(b)	Set	
	(c)	Т	ort	(d)	Gate	
	(e)	Т	уте			
.4.	OFF	SP	RING			
	(a)	R	ing	(b)	Spring	
	(c)	0	ffling	(d)	Off	
	(e)	0	ften		0	
5.	MYS	STE	ERIOUS			
	(a)	Si	ister	(b)	Tyre	
	(c)	Y	es	(d)	Year	
	(e)	1	stem			
6.	MO		RLANI)		
	(a)		others	(b)	More	
	(c)		,d	(d)	Rate	24
7	(e)	1			·	
7.			MC			
	(a)		od d	(b)	Sing	
	(c) (e)		ling	(d)	Kin	
8.		AN	IOUS	1. 1. 1. 2		
		1997 B.		Stor E.	198.2	

	(a)	Man	(b)	Fin
	(c)	Famous	(d)	Fan
	(e)	Mouse		
9.	EFF	ICIENCY		
	(a)	Fin	(b)	Fee
	(c)	Efficacy	(d)	Niece
	(e)	Fief		
10.	DAU	JGHTER		
	(a)	Dear	(b)	Hat
	(c)	Read	(d)	Tear
	(e)	After		
		ANTO	NYMS	

In each question below, you will find a capitalised word followed by five alternative words, Choose the alternative word which is opposite in meaning to the capitalized word.

INCREMENT 11.

(a)

- Distortion (b) Innocence
- (c) Excrement (d)
 - Decrease
- ·(e) Embrace
- 12. OCCIDENTAL
 - (a) Oriental
 - Supplemental (b)
 - Accidental (c)
 - (d) Confidential
 - (e) Coincidental
- 13. COGENT
 - (a) Complaining
 - (b) Incoherent
 - (c) Unconvincing
 - (d) Bothersome
 - (e) Outspoken
- 14. **EPHEMERAL**

EXTANT

(d)

(a)

(c)

(a) Highly critical

Instant

- (b) Aflame (c) Permanent (e)
 - Feminie

Sincers

- Intent
- Destroyed

(b)

(b)

- (d) Inside
- (e) Stopping short
- 16. REFRACTORY (a) Chilly

Obedient

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15.

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_	(a)	Renewing							26
	(c) (d)	Unsatisfactor	171			(c)	Concealme		20
		Blasphemour				(d)	Calm		
	(e)	EGADE	5		27.	FLIN		(e)	Clumsiness
17.						(a)	Pierce	11.5	12200 H
	(a)	Traitor				(c)		(b)	Revive
	(b)	Positive pers	son			(e)	Extol	(d)	Advance
	(c)	Loyalist			28.	VILI	Offend		
	(d)	Escapade		8. • 8	20.	a Reason			V0-20-04 04040
	.(e)	One who can	ncel			(a)	Organise	(b)	Civilize
18.	TUR	GID				(c)	Restrain	(d)	Warm
	(a)	Deflated	(b)	Sanitary	20	(e)	Commend		
	(c)	~ • •	(d)	Resistant	29.	POLI			
	(e)	Agile	(-)	resistant		(a)	Poetic		
19.	PRA					(b)	Condescen	ding	
	(a)	Run a risk				(c)	Tactless		
	(b)	Refuse to pr				(d)	Shy	(e)	Rustic
	(c)	Determine t	hay		30.	FECI	JND		
						(a)	Timid	1	
	(d)	Prey on pas			1	(b)	Time-consu	iming	
20.	(e)	Refrain from	m spea	aking	- E	(c)	Innocent	1778	
20.		ISTANT		51		(d)	Barren	(e)	Resentful
	(a)	By chance	(b)	Contagious	31.	STRI	DENT		
	(c)	Restored	(d)	Wordless	× .	(a)	Significant	(b)	Honest
	(e)	Opposed				(c)	Skinny	(d)	Simple
21.		RTIVE	in Terrete			(e)	Pleasant	. ,	
	(a)	Open	(b)	Hesitant		D	ISSIMILA	R WO	RDS
	(c)	Willing	(d)	Permissive	Disca	ard th	e odd ones o	out in	the followin
	(e)	Ghostly	· .		32.	(i)	Grapes	(ii)	Banana
22.	MU	NDANE				(iii)	Almond	(iv)	Apple
-	(a)	Timely	(b)	Playful	33.	(i)	Pond	(ii)	Stream
	(c)	Frightening	g			(iii)	Spring	(iv)	River
	(d)	Extraordina	ary		34.	(i)	Dejected	(ii)	Gay
•	(e)	Ridiculous				(iii)	Happy	(iv)	Cheerful
23.	POI	LEMIC			35.	(i)	Scissor	(ii)	Sword
	(a)	Farce	(b)	Cancellation	1 20	(iii)	Needle	(iv)	Knife
	(c)			Continuation	36.	(i)	Lion	(ii)	Wolf
-	(e)	Catastroph		Anthelian Anthe	27	(iii)	Needle	(iv)	Cat
24.		NTRAVENE		(the second s	37.	(i)	Dagger	(ii)	Atom bomb
174	(a)	Filter	(b)	Create		(iii)	Gun	(iv)	Pistol
	(a) (c)			Obey	38.	(i)	Milk	(ii)	Wheat
	(e)	Beautify	(d)	Obcy		(iii)	Rice	(iv)	Barley
25		Extract MBER	,	a contract of the second	39.	(i)	Goat	(ii)	Bitch
1.000			14.4	D 11 10 10 1001		(iii)	Buffalo	(iv)	Cow
	(a)	Rigid	(b)	Relaxed	40.	(i)	Football	(ii)	Cricket
Ξ.	(c)		(d)	Slight		(iii)		(iv)	Hockey
26	(e)		te		41.	(i)	Holland	(ii)	India
,	50	HISM		i de		(iii)		(iv)	Germany
	(a)	Union	(b)	Reduction	Sen	tence	Completion	•	one or two bla

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270		interngence
spa	ces, each blank indicating a word that has	48. They talk a good deal about using but deep down they seem to
bee	n omitted. Beneath the sentence are five	expect that society will treat them with
alte	rnative words or sets of words. You are to	if they do SO
cho	ose the one word or set of words which,	(a) Machinations Tensit
· whe	en inserted in the sentence, best fits in	(b) Insubordination
with	h the meaning of the sentence as a whole.	regulsion
42.	The problem of pollution must be	(c) Theology reverence
	studied before we can	Violance indulgence
	overcome it.	appreciation
	(a) Commendably	expansion of the
	(b) Primarily (c) Adequately	
	(d) Virulently (e) Monetarily	make progress to rate
43.	Though he was realistic and pragmatic	
	in most things, he was an ardent	(a) Rapid Substantia
	devotee of plays of	(b) Noticeable
	(a) Politics (b) Satire	and a state of the
	(c) Realism (d) Fantasy	(c) Marked detailed
	(c) Emotion the reports in	(h) Indicated
44.	Officials are stillthe reports in	(c) Suitable infinite
	what is obviously atmosphere of	50. In spite of its limitedthe
	(a) undulating fervid.	50. In spite of had a strongon
	immalci lai	political thought in the country. (a) Circulation influence
	VIVIU	intensity
	THOULUUS.	i conression
	D grave	(d) Values survival
46	buccing law was declared	i i i i i i i i i i i i i i i i i i i
45.	unconstitutional by the court in the	I I I I I I I I I I I I I I I I I I I
	LISA	a shock, it is important to
	(a) Centennial	provideinspection and checking
	(b) Contemporary	facilities in their manufacture.
	(c) Substantial	(a) Lethal adequate
	(d) Controversial	(b) Therapeutic intensive
	Computative	(c) Massive intricate
46.	(e) Cumulative He struggled to maintain hisin	(d) Recognizable oblique
	the face of the threatening mob. (a) Umbrage (b) Composure	(e) Bizarre fastidious
		Another Type of Sentence Completion
		Questions:
	(e) Fraternity Not only did he display	If people's eyes were not sensitive to blue
47.	Not only did he display manners but his whole	light, objects which now appear blue would
	attitude betrayed hisfor these	appear
	people whom he considered his	Items of this type are satisfactory as long as
	inferiors.	they deal with unambigous matter that demands answers of no more than one or two
	(a) Benign attrition	words. Should the item demand complex
	(b) Elegant Irustration	reasoning that takes longer to explain, there
	(c) Abominable contempt	is awary chance that if would all act
	(d) Peculiar anxiety	bewildering variety of answers that would be
	(d) Revolting indignation	ocumening miney of an

Intelligence	
very difficult to assess and equate.	271
Each of these sentences has one or two blank	freedom for himself but not for those
spaces, each blank indicating that a word has	
been omitted? Beneath the sentence are five	(a) innerently murcue
choices of word or set of words. You are to	(b) Firmly belabor
choose only one word or set of words which,	(c) Vehemently support
when inserted in the sentence, best fits in	(d) Characteristically
with the meaning of the sentence as a whole.	reject
52. World War II was responsible	(e) Suitable require
	57. Their married life was not
people.	since it ended in divorce.
	(a) Cogent (b) Imminent
(b) Aggregating	(c) Nubile (d) Tranquil
	(e) Obvious
performance	58. Life arose on the earth billions of years
(c) Operating	ago through theof
commodities	matter into man.
(d) Apportioning	(a) Transformationinanimate
outlooks	(b) Contraction astronomical
(e) Implementing	(c) Ecology mobile
diversions	(d) Reduction existent
53. Because of his driving, the	(e) Induction physical
other car was forced to turn off the road	59. A child should not beas being
or be hit.	either very shy or over-aggressive.
(a) Placid (b) Exemplary	(a) Instructed (b) Refrained
(c) Perceptive (d) Negligent	(c) Intoned (b) Categorized
(e) Resourceful	(c) Distracted
54. Since the bill wasan excellent	60. The fact is that surface fleets are
chance for passage by	becoming increasinglyin the
observers, he decided to base his future	unclear age, but the Navy
plans on the assumption that it would	understendebly
finally pass.	
(a) Granted biased	(a) Powerful redress
(b) Precluded numerous	(b) Obsolete concede
	(c) Diverse resist
	(d) Mechanized disrupt
(d) Accorded impartial	(e) Complex enhance
(e) Reported anonymous 55. Many young people even from	· · · · · · · · · · · · · · · · · · ·
many young people, even nom	
backgrounds, show their	rejection by becoming very,
by opposing the	while othersand becoming again
establishment.	like little dependent children.
(a) Repressed visibility.	(a) Concise objectify
(b) Disadvantageous	(b) Militant regress
connection	(c) Impulsive diminish
(c) Immature indigency	(d) Indignant revive
(d) Affluent alienation	(e) Amiable procrastinate
(e) Morana	62. His choice for the new judge won the
56. The dogmatist at either end of the	immediateof city officials,
political spectrumbelieves in	even though some of them
spectrumDeneves in	hadabout him.

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272			Intelligence
	(a) Acclaim reservations	69.	Legalinitiated by the
			government necessitates that
	(b) Disdain information	ł	manufacturers usein choosing
	(b) Apprehension dilemmas		food additives.
	(c) Vituperation repercussions		(a) Entanglements knowledge
	(d) Enmity preconception		(b) Devices intensification
63.	The fact that theof		(c) Talents decretion
•	confrontation is no longer as popular as		- 1: 't' - moderation
	it once wasprogress in race		- i i to a contion
	relations.		(e) Restraints caution A really person would never
	(a) Practice inculcates	70.	beenough to think that he is
	(b) Reticence indicates		be
	(c) Glimmer foreshadows		always right.
	(d) Insidiousness reiterates		(a) Sophisticated naïve
2 - 4	(e) Technique presages		(b) Intricate revereut
64.			(c) Demented articulate
0.11	imaginatively, man could never have		(d) Fortified neurotic
	developed		(e) Dedicated humble
	(a) Premonition civilization	71.	surveillance includes the use
	(b) Inhibition aesthetics	•	of tape recorders and microphones.
	(c) Apparatus presumption		(a) Legitimate (b) Voluntary
	(d) Capacity architecture	1221	(c) Sporadic (d) Electronic
	(e) Animosity creation	1	(e) Biological
65.		72.	Aon the manufacture of
	mustalt possible material.		nuclear weapons would help lead
	(a) Atrophy (b) Duplicate		toon arms limitations.
	(c) Incinerate (d) Emulate		(a) Deficit perseverance
	(e) Jettison		(b) Moratorium negotiations
66.	The quotation was		(c) Referendum inhibitions
	erroneouslyto a British poet.		(d) Disagreement intrusion
1.1	(a) Resolved (b) Attributed		(e) Concession pacification
	(c) Activated (d) Relegated	:	COMPREHENSION
	(e) Vitiated	.73.	The author seems to question the
67.	Use of air conditioners and other	*	sincerity of
	electrical apparatuses had to be		(a) Politicians (b) Playwrights
	that summer because of the		(c) Opera goers
	of the generating system.		(d) "Low brows"
	(a) Postulated reaction		(e) Grave diggers
	(b) Curtailed inefficiency	74.	There is no need for, we can
	(c) Implemented residuals		defeat the enemy.
	(d) Augmented responsiveness		
60	(e) Manipulated intensity		(a) Dearth (b) Danger
68.	Despite their seeming, the	. 75.	(c) Distinction (d) Dispair
	subjugated tribes secretly did their best	. 15.	The walls of the jail are very high
in the second	totheir conquerors.		(a) Allow (b) Courage
ist.	(a) Acquiescence thwart		
1300	(b) Harmony assist	76.	
	(c) Enmity foil (d) Paballian	70.	turned
	 (d) Rebellion embarrass (e) Resistance vindicate . 	1. 18 1. 19 1	
	(e) Resistance vindicate		(a) Righteous (b) Riot
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Intell	igence			272
	(c) Ritual (d) Riotous		89.	Rising prices 1
77.	The poorof the village lived in		07.	Rising prices have made it difficult to
//.	huts.			maintain a goodof living.
	(a) Inhabitants (b) Citizen			(a) Standard (b) Style
	(c) Residents (d) Originals		00	(c) Self (d) Stand
70	He uttered a lie and thishis		90.	An honest man is liked andby
78.	father's anger.			everyone.
				(a) Response (b) Respect
	(-)			(c) Responsible(d) Respected
- 0	(c) Yielded (d) Aroused		91.	Writing books is not acareer.
79.	The examination has been			(a) Rewarding (b) Awarding
	(a) Held (b) Poned			(c) Reward (d) Warding
	(c) Posted (d) Postponed		92.	He died before he could complete his
80.	The police made an			
	arrangement for the safety of			(a) Graphy (b) Biography
	the passengers.		3	(c) Autobiography
	(a) All (b) Enough			(d) Monography
	(c) Adequate (d) Elaborate		93.	He has become Because of his
81.	Whothe south pole?			old age.
	(a) Went (b) Devised			(a) Starve (b) Strong
	(c) Invented (d) Explored			
82.	In summer the water in the		94.	(c) Strange (d) Sluggish He died after aillness.
	wellsrapidly.		/1.	(a) Big (b) Great
	(a) Less (b) Changes			(c) Serious (d) Seriously
	(c) Reduce (d) Diminishes		95.	The members of the team were
83.	On heating water isinto steam.			selected in amanner.
	(a) Transformed			(a) Happy (b) Relief
	(b) Converted			(c) Generally (d) Haphazard
	(c) Changed		96.	I want a place where I can work
84.	In the office he is not in the good books			without
•	of his			(a) Change (b) Delay
	(a) Office (b) Friends			(c) Boring (d) Interruption
	(c) Superiors (d) Mates		97.	He wanted advice as how they could
85.	is not good for health.	3		funds for their new enterprise.
	(a) Anxiety (b) Irritate	1.1	1	(a) Persuade (b) Gain
	(c) Milk (d) Water	2	÷	(c) Profit (d) Procure
86.	Smoke from the industries the	1	98.	It is thewho succeeds in the long
00.	atmosphere.			run.
	•			(a) Diligent (b) Hand
				(c) Working (d) Dull
	(b) Changes (c) Makes bad (d) Pollutes	1.1	99.	Milk is afood for children:
87.	(-)			(a) Adequate (b) Some
07.	In fact a man learns more from his	1		(c) Whole (d) Wholesome
	(a) Field (b) Pooks		100	The new management of the company
	(a) Field (b) Books		100.	haschanged its working.
	(c) Environment	1	1	
88.	(d) Nature		. I., Y	
00.	a oo mach of religion leads to		101	(c) Wholly (d) Extremely It is difficult to spell his name
	(a) Money (b) Responsible	1	101.	
	(c) Intolerance (d) Response			(a) Justly (b) Accurately (c) Rightly (d) Correctly
				(c) fugues (d) concerns

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274	8		Intelligence
		115	There is no harm in being from
102.	It isbut true.	115.	time to time.
	(a) Informal (b) Indeligent (c) Inaccurate (d) Incredible		(a) Ill (b) Healthy
103	(0) 1		(c) Humorous
103.			(d) Hanny
	(a) Registry (b) Registrar	116.	Food air and water areto life.
	(c) Register (d) Registered		(a) Needed (b) Adequate
104.	The government has ordered		(a) Essential (d) Enough
	inquiry into the police firing.	117.	She did notof the air crash.
	(a) Advocate (b) Governmental	117.	(a) Life (b) Die
	(c) Judicial (d) Legal		(a) Live (d) Survive
105.	His arguments were not adequate to	118.	The Arvansto India:
	the judge.	110.	(b) Invaded
	(a) Impress (b) Permission		(a) Migrated (d) Settled
	(c) Convince (d) Please	119.	
106.		119.	(a) Drowned (b) Sink
	avoid accidents		(d) Submerged
	(a) Danger (b) Cautions	120	His proposal fell out forof
	(c) Precautions (d) Warning	120.	support.
107			(a) Want (b) Little
	as it was originally planned.		(1) Dequired
	(a) Keep (b) Retain	101	'll a strong to
	(c) Adhere (d) Demand	121.	
108		÷.	(a) Bad (b) Cunning
	(a) Part (b) Claim		
	(c) Share (d) Same	100	(-)
109		. 122.	Virtue is its own
	(a) Excess (b) Less		(a) Gain (b) Gift
	(c) Greatest (d) Moderate	100	(c) Reward (d) Cost
110.	We when we came to know that	123.	What does the box?
	he escaped unhurt.		(a) Made (b) Consist
	(a) Laugh (b) Happy		(c) Comprised (d) Contain
	(c) Joyed (d) Rejoiced	124.	India has beenmany times
111.	They wereto wait till the signal	8 .	by foreign rulers.
	was given.		(a) Waring (b) Defeated
	(a) Commanded		(c) Invaded (d) Fought
	(b) Told	125.	He is found ofjokes.
	(c) Said (d) Asked		(a) Suggesting (b) Throwing
112.	He consoled themother as best		(c) Boasting (d) Cracking
	he as he could.	126.	Your answer book will be
	(a) Lucky (b) Luck		with the help of a computer.
	(c) Fortune (d) Unfortunate	5 B	(a) Seen (b) Tested
113.	Food hasten lives.	1	
	(a) Asked (b) Taken	127	(c) Judged (d) Evaluated
	(c) Claimed (d) Demanded	127.	I can point out severalin your
114.	A good teacherhis students to		reasoning.
	work hard.		(a) Cordial (b) Flaws
			(c) Weak (d) Flawless
	(-) I I	128.	His argument is not
	(c) Induces (d) Forces		(a) Reluctant (b) Convincing
			(c) Vincing (d) Confident

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BA

Intel	ligence
Inter	Ingenie

DE

	Modern science	has
129.	madeadvance.	,
Г	GRAMMAR TEST	
L 130.	 (a) Objective (b) Incredible (c) Illegible (d) Legitimate Name the letter which follows second consonant after the third vo in the alphabet. 	the
	Choices:	
	(a) M, (b) J (c) L (d) K	
131.	these stamp on	the
	envelope.	
	Choices:	
	(a) Remove (b) Put	
132.	(c) Affix There is an argument between the	two
152.	brothers over the land.	two
	Choices:	
	(a) Fight (b) Quarrel	
	(c) Dispute (d) Complaint	
133.	Man is a social animal.	2.1
	Choices:	
	(a) Jovial (b) Talkative	
	(c) Gregarious	iono
134.	During the war, restrictive regulation	inal
	were imposed on all the princ	ipai
	towns. Choices:	
	(a) Police vigilance	**
	(b) Warning	
	(c) Curfew	
135.	Put the following words in alphabet	ical
	order :	
	(a) Election (b) Enter	
	(c) Examination	
	(d) Engagement	
P	(e) Eloquence	
Form	ing Meaningful Words	the
	tions 136 to 139 are based on	ine
(1)	ving five words:	(3)
LAN	LIMERICK (2) OBDURATE TERN (4) ZEPHYR	(5)
MAG	N'LOQUENCE.	(3)
Acco	rding to the instructions given in e	ach
quest	ion use the letters of the words and fo	orm
a mea	aningful word. Your answer should	be
the a	ternative which gives the last lette	r of
the ne	ew word so formed.	

	215
136.	Form a word using the fifth, seventh and eighth letters of the second word; the second and fourth letters of the third word; and the first letter of the fifth word
	(a) M (b) T
137.	(c) R (d) E Form a word using the second and fifth
-	letters of the first word: the first, fifth and seventh letters of the second word: and the second and fourth letters of the
	third word. (a) O (b) A
	(c) C (d) E
138.	Form a word using the second and fourth letters of the first word; the third letter of the second word; the second and third letters of the third word, and
	the first letter of the fifth word. (a) M (b) T
	(a) M (b) I (c) D (d) E
139.	
	introduced into body of the following words, forms new words.
(a)	D (b) N (c) A (d) M
140.	prefixed by all the following to form sensible words: MAN, WED, LAD, HAT Choices:
	(a) O (b) Y (c) E (d) A
141.	
141.	prefixed to each of the following words
1.0	forms a new word.
	(a) V, CHO, VO
1.0	, N
. 1	(b) Profess () phan
140	(c) Brace () ter.
142.	Name a single letter which can be taken out of all the words in each group
· · · ·	to form new words;
	ind,ite,ingle,ill
1/13	Name a single three letter word that
145.	will suffix the following words;
×	(a) BREAD (b) DROVE
	(c) SHORT (d) BROUGHT
144.	Name a single three letter word that will suffix the following words.
·	

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(a) close, miss,	85. (a) 86. (d) 87. (c) 88. (c)
	89. (a) 90. (d) 91. (a) 92. (c)
(c) able (d) count. 145. Using only once each letter in the word	93. (d) 94. (c) 95. (d) 96. (d)
DEPARTURE, form new words which	95. (d) 97. (d) 98. (a) 99. (d) 96. (d) 97. (b) 102. (d) 103. (d)
are similar in meaning to the	100.(0) $101.(0)$ $10(-(a))$ $107.(a)$
following:	104. (c) 105. (c) 110 (d) 111 (d)
scarce,evaluate,walk,	108.(b) 109. (c) 114 (b) 115 (c)
unmixed	112. (d) 115. (d) 119. (a) 110. (a)
146. This work is marvelous ; it an	116. (c) 117. (b) 118. (c) 119. (a) 122 (d)
award.	120. (a) $121. (d)$ $122. (d)$ $127 (b)$
(a) permits (b) warrants	124. (c) 125. (d) 120. (d) 121. (o) $121. (c)$
(c) requires	128. (b) 129. (b) 130. (d) 151. (c)
147. The door was closed to the loud	132 (c) 133. (c)
noise.	[(a) (b) (c)] = [(b) (c)]
(a) shut off (b) mute	127 (c) 130. (d)
(c) conceal	136. (c) 137. (c) ICE (b) OR (c) LET 140. (c) 141: [(a) ICE (b) OR (c) LET
148. This meaning was during the	140. (c) $141. (c)$ $144. (DIS)142. (m)$ $143. ('R')$ $144. (DIS)$
discussion. (a) accurate (b) obvious	142. (m) 143. (\mathbf{R}) 149. (c) Tread (d) Pure] 145. [(a) Rare (b) Rate (c) Tread (d) Pure] 146. (b) 147. (b) 148. (c) 149. (b)
(a) acculate ()	145. (a) 147. (b) 148. (c) 149. (b)
(b) implicit 149. For the sake of convenience our	
149. For the sake of convenience our year contains 365 days.	Insert the Missing Numbers
Choices:	Insert the Missing
(a) typical (b) ordinary	and Letters
(c) popular (d) common	1. 196 (25) 324 329 () 137
Answers	(a) 39 (b) 25
	(c) 45 (d) 85
1. (a) 2. (c) 5. (b) 8 (e)	(e) None of these
5. (a) 0. (a) 11 (d) 12 (a)	2. 651 (331) 442 449 () 523
9. (c) 10. (c) 15. (c) 16 (b)	(a) 155 (b) 168
13. (c) 14. (d) 10. (a) 20 (e)	(c) 324 (d) 365
17. (c) 10. (a) 22. (a) 24. (d)	(e) None of these
21. (a) 22. (d) 23. (d) 28 (e)	3. 18 25 4 16 20 3 6 15
-25. (a) 20. (a) 21 (a) 32 (c)	(a) 15 (b) 18
29. (c) 50. (d) 25. (c) 36. (d)	(c) 5 (d) 3
33. (a) 54. (a) 20 (b) 40 (c)	(e) None of these
37. (a) 50. (a) 12 (d) 44 (d)	4. 12 (56) 16 16 () 20
41. (0) 42. (1) 47 (a) 48 (d)	(a) 72 (b) 82
(-1) (-1)	(c) 92 (d) 62
47. (d) 56. (l) 56 (d)	(e) 52
	5. 15 (90) 12 19 () 15
	(a) 45 (b) 86
	(c) 75 (d) 91
	(e) None of these
	6. 148 (110) 368 140 () 396
72 (-) 74 (-) /5 (2) /6 (()	0. 140(110) 508 140(744
73. (a) 74. (d) 75. (a) 76. (d) 77. (c) 78. (d) 79. (d) 80. (d)	(a) 136 (b) 231
73. (a)74. (d)75. (a)76. (d)77. (a)78. (d)79. (d)80. (d)81. (d)82. (d)83. (c)84. (c)	(a) 136 (b) 231 (c) 334 (d) 128

.

	(e) None of these		277
	(-)		277
7.	44 (44) 48 55 () 60	10	(e) None of these
	(a) 54 (b) 55	18.	Insert the missing word:
	(c) 60 (d) 65		ORBIT (RILE) WHELL ARSON
	(e) None of these		STEMS
8.	337 (410) 542 443 () 683		(a) RACK (b) RATE
0.			(c) ROAD (d) ROSE
			(e) None of these
	(-) 521	19.	Insert the word the completes the first
•	(e) None of these		word and begins the second.
9.	4 9 20 5 11 24 8 17	·	(a) SP () OW
	(a) 35 (b) 45	* .	
	(c) 36 (d) 48		
	(e) None of these	20.	(d) ALL (e) None of these
10.	60 (15) 12 77 () 11	20.	Insert the missing letter: A D G D H I.
	(a) 33 (b) 21		HM?
	(c) 44 (d) 50		(a) C (b) K
	(e) None of these		(c) L (d) R
11.	102 (170) 17 368 () 106	21	(e) None of these
	(a) 340 (b) 524	21.	Insert the missings word:
	(c) 440 (d) 356		GRID (RING) HANG STIR () GAFF
	(e) None of these		(a) RANK (b) TIFF
12.			(c) SING (d) STIR
	(a) 48 (b) 67	22.	(e) None of these
	(c) 61 (d) 39	62.	Insert the word that completes the first
	(e) None of these		word and begins the second: EX () ACLE
13.	6 9 21 10 5 15 10 3		
1	(a) 18 (b) 21		
	(c) 11 (d) 25^{-10}		(c) TENT (d) BEND(e) None of these
	(e) None of these	23.	Insert the missing word:
14.	16 (93) 15 14 () 12	25.	GREAT (TOES) ROCKS PANTS
	(a) 128 (b) 129		() DAVID
	(c). 56 (d) 78		(a) RANK (b) ROMP
	(e) None of these		(c) KITE (d) SAND
15.		2	(e) None of these
	(a) 154 (b) 132	24.	Insert the word that completes the first
	(c) 235 (d) 339		word and begins the second: SP ()
	(e) None of these		NA
16.		2	(a) ILL (b) EAK
	(a) K (b) P		(c) DIA (d) ARE
	(c) F (d) I		(e) \cdot None of these
	(e) None of these	25.	Insert the missing word:
17.	Insert the word that completes the first		PATCH (HALE) SMELL RANKS
	word and begins the second: (HAM		() RASPS
	() ENT		(a). GASP (b) SAPS
	(a) Ring (b) String		(c) GETS (d) SITS
	(c) Thrill (d) Drill	1	(e) None of these
	(2) 2	26.	Insert the word that completes the first

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	word and starts the second. (Clue: it is	35. RTPRNP?
	the name of an animal): $C()X$	(a) B (b) D
	(a) ALE (b) IRE	(c) Q (d) L
	(c) APE (d) OUT	(e) H
	(e) None of these	36. DF GJ KM NQ RT ?
27.	Insert the word missing from the	(a) EL (b) UX
21.	brackets:	(c) NO (d) UV
		(e) XY
	FEE (TIP) END DANCE ()	37. HI JI KL ML NO ?
	SPHERE	(a) PO (b) HL
	(a) ROCK (b) HIRE	
	(c) PICK (d) BALL	
20	(e) None of these	
28.		$\begin{array}{ccc} 38. & A E I M Q ? \\ (a) & V \\ \end{array} $ (b) W
	the two words out side the brackets:	
	LARVA () FOOD	
	(a) MILK (b) GRUB	
	-(c) SOIL (d) SAND	39. BFKQ?
29.	(e) None of these	(a) P (b) S
29.	Insert the missing letter: M N O L R I V ?	(c) X (d) D
	(a) S (b) T	(e) None of these 40. AFI DHYL EJ?
	(a) 5 (b) 1 (c) E (d) D	
	(e) None of these	$\begin{array}{ccc} (a) & Q & (b) & S \\ (c) & O & (d) & P \\ \end{array}$
30.	Insert the word missing from the	(c) O (d) P (e) None of these
	brackets:	(c) Anone of these
	WORK (ROAM) AMAZE TESTER	Answers
	() OMEN	1. (b) 2. (c) 3. (d) 4 (a)
	(a) REST (b) TEST	5. (c) 6. (d) 7. (b) 8. (a)
en de la compañía de Compañía de la compañía	(c) REAL (d) SEEM	9. (c) 10. (b) 11. (b) 12 (d)
	(e) None of these	13. (c) 14. (d) 15. (a) 16. (c)
31.	CBAEDZGF?	17.(0) 18. (d) 19. (c) 20. (d)
	(a) X (b) H	21. (b) 22. (c) 23. (d) 24. (d)
	(c) Q (d) Y	25. (b) 26. (c) 27. (d) 28. (b) 29 (c) 20. (c) 27. (d) 28. (b)
22	(e) None of these	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
32.	ABDG?P	37 (a) 20 (b) 50. (d) 50. (b)
	(a) C (b) E (c) K (d) J	37. (a) 38. (c) 39. (c) 40. (c)
	(c) K (d) J (e) O	
33.	JZIYH?	a the first strain in the second strain in the second strain is the second strain in the second strain is the seco
	(a) A (b) X	103
Seres -	(c) U (d) Z	
19	(e) None of these	2022 States and States
34.	WTPMI?	
	(a) G (b) H	and the second second second second second second
1.5	(c) F (d) L	Sales - Section - Sales
- intr	(e) N	area and and and and and and and and and an
* 7		

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Numerical Aptitude Tests

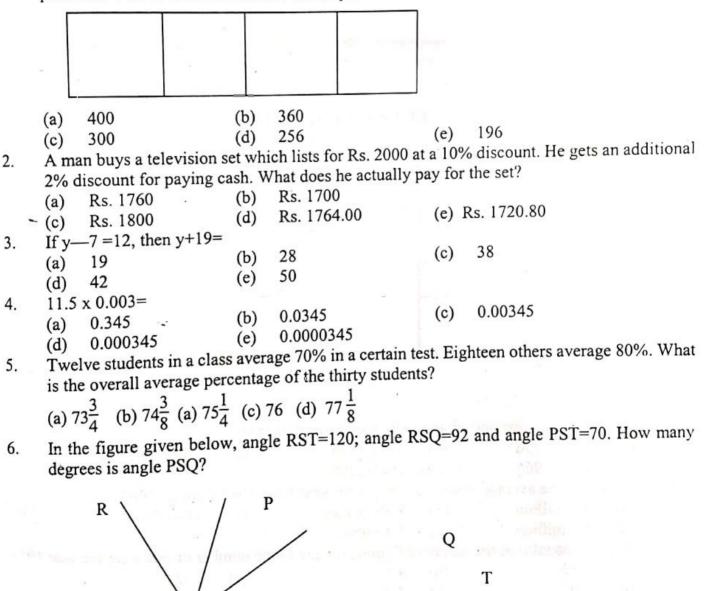
Numerical aptitude tests are designed to discover whether the candidate has the basic talent for solving simple problems in numerical, arithmetic, geometry, algebra, business calculations, etc. These tests are very popular examinations leading to careers in banking, private business houses.

public sector undertakings, and the like. Computer Tests CSS, PCS.

We give in this chapter a variety of multipurpose tests related to above careers. Each of the problems below is followed by five alternatives (a) through (e). Solve each problem and then choose the correct answer. Note that diagrams are not necessarily drawn to scale. Scratch-work may be done on available space on the pages of this test.

QUESTIONS

1. In the figure below, four squares have been placed side by side to form a rectangle of perimeter 140. What is the area of each square?



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(b)

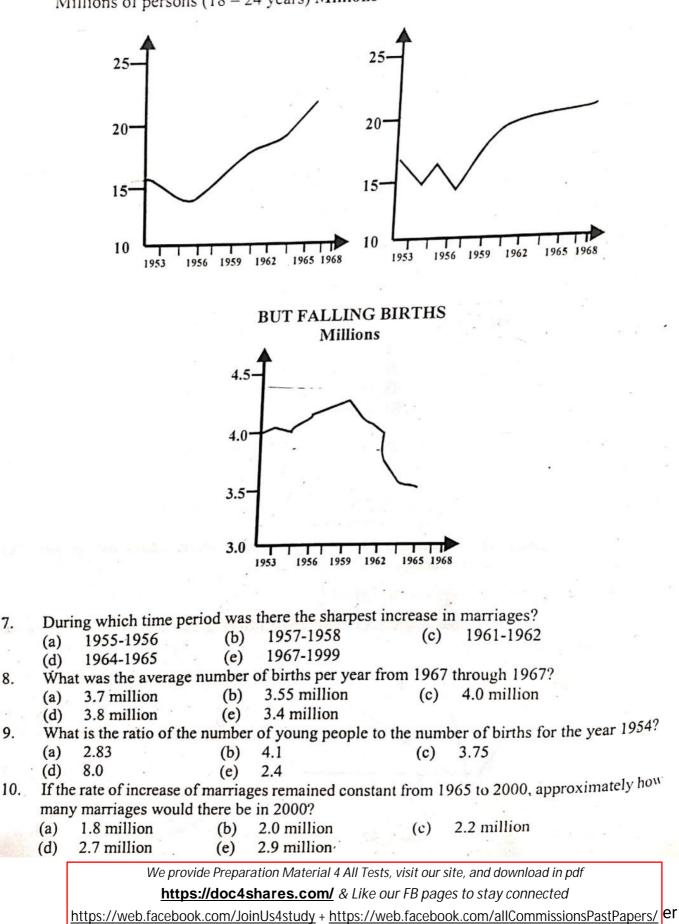
(a) 40

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45

(C)

51 (e) (d) 48 The following graphs are to be used for Question 7-12. RAPID INCREASE IN YOUNG PEOPLE RISING MARRIAGES Millions of persons (18 - 24 years) Millions

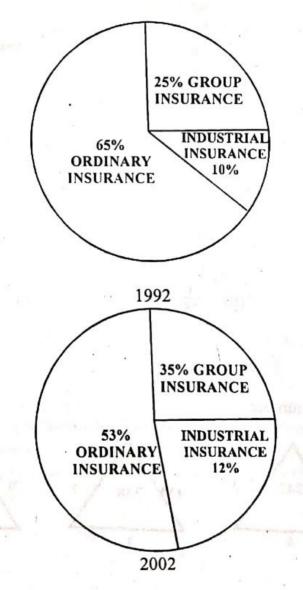


7.

8.

9.

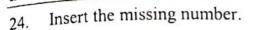
Inter			1.00			281
11.	How n	nany marriages occ	urred	as the final appro	ximate tota	I in three different years?
	(a)	1.7 million	(b)	1.3 million	(c)	1.55 million
		1.45 million	(e)	1.9 million		
12.	If the	government collect	ted Rs	. 200 for each m	arriage Rs	. 100 for each birth, and Rs. 20
12.	from e	each young person,	how n	nuch did it collec	t in 19662	. Too for each birth, and Rs. 20
	(a)	Rs. 260 million	(b)	Rs. 480 million	(m 1700;	
	· ·	Rs. 820 million	(d)	Rs. 1160 million	n	
	· ·	Rs. 1500 million			1	
13.	· /		office	with Rs 10.00	and spends	it all on 50 paise and 20 paise
	stamp	s. If he buys some o	of both	what is the great	test number	of 5 paise stamps he could buy?
	(a)	10	(b)	12	(c)	14
	(d)		(e)	18	(0)	14
14.			· /		n cails 6 mi	iles south, and then 6 miles west
	again	. Approximately ho	w mar	w miles is the shi	n than from	the port?
	(-)					
	(a)	9	(b)	11	(c)	13
	(d)	15	(e)	17		
Ou	estions	15-19				
-		Death Benefits Pa	umont	a in the U.C.		
1115	urance	Death Denents Pa	yment	s in the U.S.		

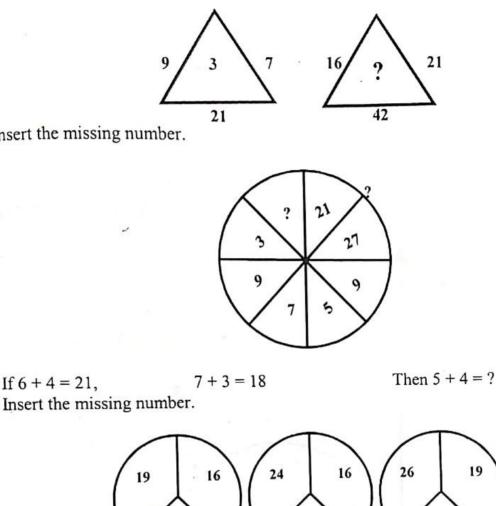


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				Intelligence
282			512-1	learness are in the central angle of the sector for
15.	In the 1992 pie diagra	am abov	e, how	many degrees are in the central angle of the sector for
	industrial Insurance?			(c) 32
	(a) 28	(b)	30	(c) z^{2}
	(d) 34	(e)	36	death benefits, how many million
16.	If 50 million dollars w	vas paid	out in 2	2001 fors insurance death benefits, how many million
10.	were from Group insu	rance?		(c) 16
	(a) 13	(b)	14.5	(6) 10
	(d) 175	(e)	19	to those of Industrial
17	$I_{\rm D}$ 1002 what was the	e ratio c	of the p	ayments from Group insurance to those of Industria
17.	insurance?	-	-	2.2
		(b)	5:1	(c) 3:2
	(a) $5:2$			normants from 1992 to
	(d) 5.1		to a	e increase in Group insurance payments from 1992 to were the same in both years?
18.	What was the approximation of the total insuration	ance pay	ments	were the same in both years? (c) 40
		(b)	35	(c) 40
	(a) 30			millions
	(d) 45	(c)	out for	insurance death benefits in 2002, how many millions
19.	If 50 million dollars w were from Industrial Ir	as paid	?	
	-	(b)	6	(c) ₇
	(a) 5	(e)	10	
	(d) 8		10	
20	How much is $\frac{1}{4}$ of $\frac{x}{4}$?			
20.	110 / 11/2017 4 4			(1) $\frac{1}{2}$
	(a) 4x	(b)	х	(c) $\frac{-}{x}$.
	(a) 4x			
	(d) $\frac{x}{16}$			
	What is $\frac{1}{5}$ of $\frac{x}{5}$?			
	what is 5 or 5		1	1
	(a) 25x	(b)	$\frac{1}{25}$	(c) $\frac{1}{x}$ (d) x
	(-)		25	
1.	Find the odd man out.			
	3 6 9 12 15 17	1 ² 17 18 182		
3.	Insert the missing number	er.		
	A	an ing St		
	\wedge		1	
	11 242	3	13/	338 2 9 ? ?
	/		1	
	L	-	1	
	6			4
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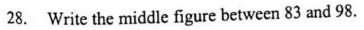


Insert the missing number. 25.

If 6 + 4 = 21,

26.

27.



7

Insert the missing figures: 29.

				00		+	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7	8	1		<	1	
	3	7	4	10-2 -33	3		1.10
	1		8.	in the second second			0
30.	16		23	20	27 24	31	?
31.	3		7	3	9 3 11	3	?
32.	4		7	9	11 14	15	19 ?

Each of the problems below is followed by five alternatives (a) through (e). Solve each problem and then choose the correct answer.

8

A catalogue advertises successive discounts of 15% and 10% on tape recorders. What is the 33. net price of a Rs. 200 tape recorder? mart 1

1		F		(~)	Dc 150
(a)	Rs. 140.50	(b)	Rs. 152.00	(C)	Rs. 150
(-)	140.00	(-)			

- (e) Rs. 153 (d) Rs. 160
- 34. Which of the following fractions is more than $\frac{1}{2}$?

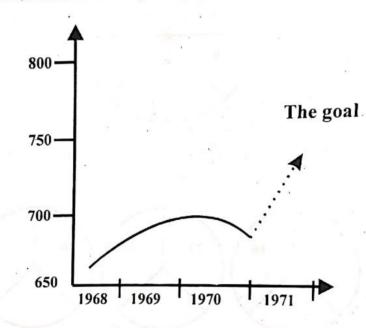
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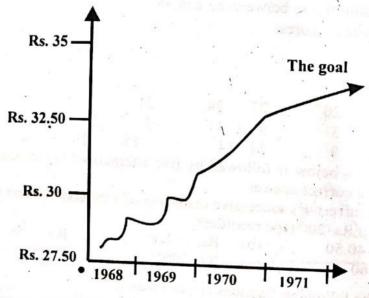
19

?

284			7	
	(a) $\frac{31}{60}$	(b) $\frac{32}{65}$	(c) $\frac{7}{15}$	
	30	(e) $\frac{14}{29}$	het percent of all the me	mbers are men?
35.	If 9 members of a (a) 30%	committee of 12 are women (b) 75%	(c) 60%	~
26	(d) 40%	(e) 25% in price from 60 ps. to 75 ps a haught for Ps 60°	s. per melon, what is the g	reatest number of
36. •	melons that can b (a) 14	e bought for Rs. 60? (b) 8 (c) 6	(d) 10 (e) 12	
Que Gros		in million of Rs. (1926 prices	s) seasonally adjusted annua	l rates.



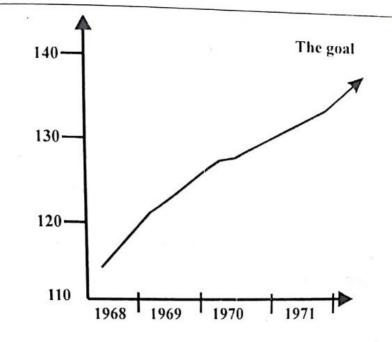
Wages average hourly earnings, manufacturing



Consumer Price Index 1957-59 = (all items)

4

42



Quarterly

- Which of the following is not a true statement according to the graphs above? 37.
 - The greatest increase in the Consumer Price Index continue toward the end of 1969. (a)
 - It is expected that the Consumer Price Index will occurred to increase in 1971 at (b) approximately the same rate as 1999-70.
 - It is expected that wages will increase at a slower rate in 1971 than they did in 1969-70. (c)
 - In 1969-70, the GNP actually decreased slightly for a while. (d)
 - It is expected that wages will continue to increase in 2001 at approximately the same (e) rate as in 1999-2000.

Which of the following is not a true statement according to the graphs above? 38.

- The goal is to slow down the rate of growth of wages. (a)
- The goal is to slow down the rate of growth of the GNP. (b)

The GNP has increased slowly from 1999-2000 (c)

The increase in wages has kept pace with the Consumer Price Index from 1999-2000 (d)

(c) 1:2

The goal is to increase the rate of growth of the GNP. (e)

(b) 3:2

- What was the approximate ratio of the percentage increase in wages to the percentage 39. increase in Consumer Price Index from the start of 1999 to the end of the third quarter of 2000?
 - (a) 4:3
 - (e) 1:1

What was the approximate percentage increase in the Consumer Price index from the start of 40. 1999 to the end of the third quarter of 2000?

- (c) 20% (b) 9% (a) 24%
 - (e) 12%

41. What was the approximate percentage increase in hourly wages from the start of 1999 to the end of the third quarter of 2000? (c) 10%

- (b) 28% (a) 17%
 - (e) 12%
- What was the approximate percentage increase in Gross National Product (GNP) from the (d) 32% 42. start of 1999 to the end of the third quarter of 2000? 6.2%

(a) 4.2%	(b) 2.2%		(c)
(a) 4.270		an Mile Barrish	
(d) 3%	(e) 5%		

286	Intelligence						
43.	A boy has an average of 75% in one term. What must be his average in five courses the next						
	term to raise his combined average to 80%?						
	(a) 86% (b) 87% (c) 82%						
	(d) 85% (e) 84%						
44.	The ice compartment in a refrigerator is 10 inches deep, 5 inches high and 4 inches wide.						
44.	How many ice cubes will it hold if each cube is 2 inches on an edge?						
45	(a) 25 (c) 10						
45.	What fraction is 50 paise of Rs. 100? (a) Rs. 1/200 (b) Rs. 1/200 (c) 200						
46.	(a) Rs. 1/200 (b) Rs. 1/200 (c) 200 To a certain number 8 is added. The sum is multiplied by 3, then the product is divided by 2						
	and 7 is subtracted from the quotient. The remainder left is 50. The number is:						
	(a) 30 (b) 40 (c) 50 (d) 60						
	(a) = (b) + (b)						
47.	The greatest number of five digits beginning with 5 and ending with 7 is: (a) 53397 (b) 57897 (c) 58987 (d) 59997						
	(a) 53397 (b) 57897 (c) 58987 (d) 59997						
48.	The average price of 3 books is Rs. 18. Which of the following could be with price of one of						
	the books? (a) 57 (b) 56 (c) 55 (d) 52						
0.25							
49.	There are a number of birds sitting on a branch of a tree. A hunter fired with his gun, only two						
	birds fell down. How many were left on the tree?						
	(a) 10 (b) 18 (c) 21 (d) 0						
50.	A driver of a car while driving found his brakes ineffective.						
	(a) He should drive fast to reach his destination quickly.						
	(b) He should drive slow to avoid any accident.						
	(c) He should stop the car immediately.						
51.	Ajmal was sitting in a row with many other boys. On his right side 15 persons were sitting						
	and on his left 14 persons were sitting. How many boys were sitting there?						
2	(a) 29 (b) 21 (c) 28 (d) 30						
52.	In a competitive test the candidates were asked to answer only six questions out of ten given						
	in the question paper. Ali felt the questions were easy and quickly answered all the ten						
	questions.						
	(a) The examiner will be happy seeing his knowledge.						
	(b) He will get more marks.						
	(c) He should have answered only six question.						
53.	A speeding bus with passingers saw suddenly a child on the road just before the sign No						
	Parking: however the driver stopped the bus.						
	(a) He has done wrong by stopping the bus before no parking sign.						
	(b) He should suddenly have turned the bus to the other side.						
	·(c) He is right.						
54.	5 ³ -3 ³ +12=?						
	(a) 10 (b) 16 (c) 12 (d) 20						
55.	(50+10) - 6x2=?						
	(2) 5 (1) 15						
56.	Find out which of the two numbers given below are exactly like each other.						
in a second	(a) 313100211 (b) 313102011						
	(-) 212100211						
57.							
	Insert the missing mathematical signs in the following problems:						
`							

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Intelli			2	-2				28	
	8	2	2	=2					
	15	5	4	=16					
	8	7	8	=8					
3.	Inser	t the missing fig	ure:						
0.	8	0	7						
	Л	8	3						
	7	5	8						
	2		0						
	9	3	ć ,	••					
59. A cyclist covers half as much distance again as a tanga, driver and the much again as a man on foot. If a man can walk a distance of 3 miles will it take the cyclist to cover a distance of 27 miles?								nga driver half a n hour, how long	
Choi	ces:	(a) 3 hrs.	(b) 1	$\frac{1}{2}$ hrs.	(c) 4 hrs.			
		(d) 2 hrs.		_					
60.	Assi	gn correct math	ematical si	ons and find	the missing	ioure			
	if	8	ennatiour of	2	5	=20)		
		9		3	6	=18			
	then	6		3	9	=?	5		
61.			motical sig	no in the fall	-	•			
01.	5	rt correct mathe	6	=94	owing proble	1115.			
	7	1	6	-94 =11					
62	1	1			a wida and S	inahaa h	ich Uowm	any cucar cuba	
62.	A sugar cube carton is 8 inches long, 4 inches wide and 5 inches high. How many sugar cubes								
	will it hold if each cube has an edge of 2 inches? Choices:								
			(1-)	0	6	:) 8	(d) 16		
62	(a)	12	(b)			/	• •	a must be est in	
63.		A student secures an average of 78 percent in four subjects. How many marks must he get in							
	his fifth subject if he is to get average 80 percent in all the five subjects?								
		oices:	(1)	00	6				
~	(a)	84	(b)	89		c) 88	(d) 86	1 11 67	
64.		at is the smallest	positive n	imber which	gives a remai	nder of 3	o, when divi	ded by any of 7.	
		r 9?							
	Ch	oices:		5	Ι.,		(1) (50		
	(a)		(b)	537	(0	;) 509	(d) 450		
65.	Cor	ntinue the series	1 a - 1	2. 2.					
	(i)	10, 14, 9, 15,	8, 16,			100			
	(ii)	15, 6, 13, 6, 1	1, 6,						
66.		ert the missing n	umber						
7.9	. 18. 2	24. 51 11	50, 204			4			
67.	Ins	ert the missing n	umber		11 .				
	4	Ũ	7	1	. 3				
	32		69		5	1		· · · · · ·	
60	20		48	and the second second				*	
68.	410	sert the missing n	umber					3	
60	'	15 32 138	3 281				in the second second		
69	·	nd the odu man o	ut .	1.1.1			1-14		
	25	6, 400, 64, 45, 62	25	1 6 1 G			the state of the		
		80 10 00 D.	See State	4					

Insert the missing number 70. 8, 17, 33, 67, 133 -- -- --Insert the missing number 71. 413 (2420) 70 19 () 16 Insert the mathematical signs between the figures 72. (18-- -- 9) (211 -- -- 107) = 208 (a)(b) Insert the missing number 73. 11, -- -- , 17, 18, 23, 24, -- -- --(a) 1, 8, 27, 64, 125, 216 -----Fill in plus (+) or minus (-) signs between these numbers so that they give the correct 74. answers. $2 - - \frac{1}{2} - - 1\frac{1}{2} - - 5 = 5$ (a) 10 -- -- 13 -- -- 20 -- -- 8 -- -- 4=6 (b) 14 -- -- 7 -- -- 16 -- -- 19 -- -- 23=27 (c) Write the two missing figures in the following series 75. A 5, C 7, F 10, J 14, ----Insert the missing number 76. 0, 3, 12, 27 -- --Insert the next figure in the series 77. $2\frac{3}{4}$, 3, $3\frac{1}{2}$, $4\frac{1}{3}$ Insert the missing number 78. 8, 10, 16, 34, ----Find the odd man out 79. 102, 34, 51, 59, 119 Insert the missing number 80. 312 16

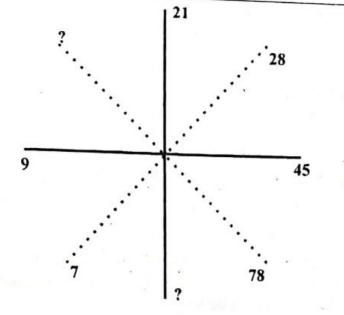
86.

85.

 Find the odd man out 64, 49, 625, 576, 121, 52
 Insert the missing numbers 153

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Intelligence



Questions 83 and 86 are based on the following 4 assumptions:

- A 20-m high pole on the side of the 50-m wide Upper Bari canal faces a 10-m high pole on the opposite bank.
- (2) There is a bird sitting on each of the two poles.
- (3) A fish appears on the surface of the water. The straight line passing through the pole's base and the fish is at right angles to the banks of the canal.
- (4) Assume the speed of both wind and water current is zero. Also assume the height of each pole as given in (1) is above ground level.
- 83. If the bird on the higher pole covers 41 m in a second, how much distance will the bird on the other pole cover approximately, in the same time?

(a) 32.5 m (b) 33.5 m

(c) 34.5 m (d) 31.4 m

- 84. If the fish were equidistant from the two banks and the birds leave the respective poles simultaneously and reach the fish at the same time, which one of the following statements must be true?
 - (a) The two birds fly an equal distance before they get to the fish
 - (b) The speed of bird on the 10-m high pole is less than that of the bird on the 20-m high pole
 - (c) The two birds have the same speed
 - (d) The speed of the bird on the 20-m high pole is less than that of the bird on toe 10-m high pole

85. Approximately how much distance does each bird fly before it gets to the fish?

(a) 21 m (b) 30 m

- (c) 25 m (d) cannot be deduced
- 86. How far must the fish be from the higher pole, if the two birds flying at identical speeds leave their respective perches simultaneously and reach the fish at the same time?
 - · (a) 28 m

(b) 20 m

(c) 22 m (d) 25 m

270			2
87.	The minimum value of	the expression $x^3+10x+7$ is.	-
	(a) 7	(b) -18	
	(c) Zero	(d) None of the above	
88.	The expression x^2-3x+	5 has a minimum value for x equal to	
	(a) 3.2	(b) Zero	
	(c) 1.5	(d) 2.4	
89.	After a 22 percent dedu	ction. A's net salary is Rs. 1,600. A's gross salary is nearly	1
	(a) Rs. 2,000	(b) Rs. 2,025	
	(c) Rs. 2,051	(d) Rs. 2,078	
9 0.	sold it to Akbar at a los	air for Rs. 2,000 and sold it to Arshad at a loss of 10 percent Arshad s of 10 percent while Akbar sold it to Qumar at a gain of 10 percent. d for it would be Rs	
	(a) 1,980	(b) 1,890	
	(c) 1,782	(d) 1,872	
91.		n priced at Rs. 2,000. He was given two successive discounts of 10 to pay 10 percent sales tax, the net amount he paid was	
	(a) Rs. 2,633.40	(b) Rs. 2,592	
	(c) Rs. 2,660	(d) Rs. 2,612.60	
92.	The value of 64×128×5		
	(a) 2^{20}	(b) 2^{21} (c) 2^{19} (d) 2^{17}	
93.	The sum of the whole n		
	(a) 1.432	(b) 670 (c) 1,275 (d) 1,435	
94.	The value of 91^2 is	(1) 0 201	
0.5	(a) 8,431	(b) $8,281$ (c) $8,241$ (d) $8,181$	
95.	The geometric mean of a	T XD IS	
	(a) $\frac{a^{2n}b^{2n}}{2}$	(b) a" b"	
	(c) $\frac{a^{2n}+b^{2n}}{2}$	and the start metric contration funder as all straid over sections and	
	(c) $\frac{1}{2}$	(d) (ab) ²ⁿ , and a set digite card a set and any barran concernent of	
96.	The value of $\left(\frac{2}{7}\right)^{-2}$ is	from the state of	
<i>70.</i>	The value of (7) is	and a set of the set o	
	(a) $-\frac{2}{7}$	(b) $\left(\frac{2}{7}\right)^{3}$	•
	(c) $\left(\frac{2}{7}\right)^{-6}$	(d) $\left(\frac{2}{7}\right)^6$	
97.	A student loses a mark fo If he answers all the 60 q correct?	r every wrong answer and scores 2 marks for every correct answer. uestions in an exam and scores 39 marks, how many of them were	

Inte	lligence 291
	(a) 31 (b) 37 (c) 33 (d) 27
98.	The next number in the sequence 2,5,28,17,126 is
)0.	(a) 217 (b) 35 (c) 37 (d) 43
99.	The missing term in the sequence 2, 7, 22, 76, 607 is
,,,	(a) 312 (b) 186 (c) 202 (d) 248
100.	$(Y+2)^{19}$ will contain
100.	(a) 19 (b) 21 (c) 20 (d) 18
101.	3-6 -03-09
1011	(a) 62 (b) 1 (c) 8 (d) 34
102.	
	(a) will decrease
	(b) will remain unchanged
	(c) will increase
	(d) can increase or decrease depending upon the initial values of length and width.
103.	the second
	The rectangle's area is
	(a) 12 cm^2 (b) 24 cm^2 (c) 8 cm^2 (d) 6 cm^2
104.	Two wires of radii 01 cm and 0.2 cm are of lengths 20 cm and 10 cm respectively. Their
2	volumes are in the ratio
	(a) 1:4 (b) 1:2 (c) 1:1 (d) 2:1
105.	The value of $\sqrt{117} \times 3\sqrt{13}$ is
	(a) $\frac{117}{\sqrt{3}}$ (b) 351 (c) 117 (d) $\sqrt{3}$
104	How many three-figure numbers can be formed from the digits 2, 6, 3, 5, 1?
· .	(a) 11 (b) (0 (c) 21 (d) 68
	(a) 44 (b) 60 (c) 24 (d) 68
107.	(a) $\frac{44}{5}$ (b) $\frac{1}{5+\sqrt{3}} + \frac{1}{5-\sqrt{3}}$ is (a) $\frac{5}{11}$ (b) 0.5 (c) 0.62 (d) $\frac{5}{11}$ Thus litters of this mixture is
	5 (c) 0.62 (d) $\frac{5}{11}$
•	(a) $\frac{11}{11}$ (b) 0.5
108.	A-10 litre mixture of milk and water contains 30 percent water. Two litres of this mixture is
	A-10 litre mixture of milk and water contains 50 percent material and the amount of milk in the taken away. How many litres of water should now be added so that the amount of milk in the mixture is a little to functor.
	(a) 1.4 (b) 0.8 (c) 0.4 (d) 0.7
109.	(a) 1.4 (b) 0.8 (c) 0.4 (d) 0.7 A man sells a radio and a mixer for Rs. 350 each. On one he gains 10 percent and on the other
	loses 10 percent. Thus on the whole, he
	 (a) gains nearly 0.1 percent. (b) Neither gains nor loses and provide the providence of 002.5 and providence
	(d) Loses nearly 0,1 percent
1.0	(d) Gains nearly 1 percent
1 100	

292		1	their produc	t is
110. The sum of two numbers	is 8. If the numbers are in	the ratio 5.1,	then pro-	
(a) 15 (b) 18 (c) 12 (c	i) 10			
(a) 15 (b) 15 (c) 15	di m			
111. The value of $\frac{5^{3}}{5^{3+3+3}}$ is		(n) (F		
(a) 5^{3} (b) 1	(c) 5^{18}	(d) 5	con empty i	t in 15 and 20
112 A top fills a tank in eight	(c) 5 ¹⁸ hours. Two taps at the bo	ttom of the tank	the tank will	be full in
112. A tap tills a tank in eight	hours. Two taps at the bo the three taps are opened s	imultaneously,	the tank with	
hours.				
(a) 60	(b) 120	(c) 27		
(d) The tank will never			l'accurt of	nercent
(d) The tank will never 113. Three successive discou	nt of 10 percent are equiva	alent to a single	discount of -	percent.
(a) 33.2	(b) 30	(c) 27.1	(d) 28.4	
(a) 55.2 5 293×5 20				
114. The value of $\frac{5.293 \times 5.29}{2}$	8.926 is			
	(1) 2 525	(c) 1.460	(d) 1.660	
(a) 1,625 115. A dealer marks his good	is 20 percent above his cost	price. If he give	es a discount	of 10 percent
on his marked price, the	e profit he earns on his goo	d is percent.	31 1	
(a) 12	(h) 75 (c) 8 (d) 10 ·			
116. A B and C can do a pie	ce of work in 15 days. A a	nd B can do the	same work	in 24 days. C
alone will do the work	in days.			
(a) 48 (b) 36 (c) 39				
117. A number is always div	visible by 8 if	12 Juli - 1		
(a) It ends in 8	(b) it is even			NET IL OLI SI
(c) its last two digits as	a number are divisible by	8		1
(d) Its last three digits	as a number are divisible b	y 8		1
118. The value of $3.8 \times 3.8 \times 3.$	$\frac{3.8+1.2\times1.2\times1.2}{1.2}$ is	• 1.24		
(a) 6.2 (b) 3.4 (c) 5.	0 (d) 5.8	0011-000		
119. A sphere of radius 10 c	is melted to form a cube	of the same mat	erial. The sid	e of the cube
is nearly. $(a) 10 \text{ sm}$ $(b) 16 \text{ sm}$		() 10	. · ·	
(a) 19 cm (b) 16 cm	or Ps. 7 000 and calls it for	(c) 10 cm	(d) 15 cm	a a salar
120. A man buys a scooter f	of RS. 7,000 and sens it for	Rs. 11,500. The	percentage p	rofit is nearly
(a) 70.6	(b) 54	(-) 59		
121. If Rs. 1.200 yields Rs.		(c) 58	(d) 64.3	in the would
be nearly percer	nt.	s at simple inter	est, the intere	st rate would
(a) 7.25	(b) 8.25 ·	(c) 9	(d) 6	
122. Rs. 2,000 at 5 percent	compound interest after for	r years will been	(u) o	
(4) 103. 2,570	(b) Rs. 2,430		once nearly.	
(c) Rs. 2,200	(d) Rs. 2,500	a per the whole, a	and a later of the second s	de la contra de la c
123 becomes Rs. 2,	500 in four years at $6\frac{1}{4}$ perce	cent, simple inter	rest	
- (a) 1,800	(b) 2,000	The strate in the second		
and the second second second	(9) 2,000	(c) 1,500	(d) 2,200	
				10

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Intelligence

nich		1.1.1.1									. 29
24.	The sum of	f five su	accessive	numbe	er is 190	. The pr	oduct	t of the	first	and the l	ast number is
	(a) 484			(b) 246				(c) 282		(d) 396	
25.	A can do a finish the v	piece o vork in	of work in d	1 12 day ays.	rs, along	, with B,	can d	lo the w	ork	in eight d	ays. B alone ca
	(a) 18			(b) 24				(c) 10		(d) 15	
26.	If $\frac{5}{7}$ of a n	umber	is 1,025,	$\frac{3}{7}$ of th	e same	number					
	(a) 735		-	(b) 410			_	(c) 61Š		(d) 645	
					An	swers					
	1. (e) 2.	(d)	3. ((c) 4.	(b)	5.	(d)	6.	(b)	
	7. (e		(a)		(c) 10		11.	(c)	12.		
	13. (e		15 BAR		(c) 16	• •	17.	(a)	18.	(c)	
	19. (t	131			(c) 22		23.	(162)	24.	(2)	
		(5) 26			(9) 28		29.	(9)	30.	(28)	
	N (1929)	19) 32	3°°' 107,055,030	33.	(e) 34	I. (a)	35.	(e)	36.	10 B	
		e) 38		39.	(e) 40). (d)	41.	(a)	42.		
		e) 44	. (c)	45. [.]	(b) 40	5. (a)	47.	(d)	48.		
		d) 50). (c)		(d) 52		53.		54.		
	1-01000	c) 56	5. (c)	57. (÷	, ×) (,+		58.		59.	100 100	
			(, ×) (·	-, +)		l) 63.	(c)	64.	(c)		
	65. (i)		9,6	66. (6	69) <u>6</u>	7. (42)	68.	(76)	69.	. (45) .	
	70 (267)	71.	(180)	e i	0	0 = 1	- 2 - 6			
	72 (a) (18÷	9) 211-1	07=208	(b) 310	-15)×=8	85	2. 18			
	73 (a) 12. 2	29 and (b) 343, 5	12	2.4	10) II fers	2112	10.4	
•	74. ((a) $2 - \frac{1}{2}$	$-1\frac{1}{2}$ +	0 + 5=5	10 10		-				
		ъ) 10+	13-21+8	4=6		ta dan da				i etimoteli	at 168
	(c). 14-	7+16-19	+23=21		1 - 18 <u>5</u>				With the	·
	75. ((019) 7	6. (48)	77. $(5\frac{2}{3})$) 78. (88) 79. ((59) (c)	84.	(b)	85. (l. (c)	b)
	80.63	1,1270	81.	(52)	82. (13	(a)	90	(c) ·	91	l. (c)	92. (c)
	86. (c)	8	7. (b)	80. (L)		07	(a)	99	8 (c)	99. (c)
	93. (c)	9	4. (b)	95. (t)	0.(0)	10)5. (c)	10	06. (b)	99. (c) 107. (d) 114. (d)
	100. (0	c) 1	01. (c)	102.	(C)	03. (0)	11	2 (1)	1	13 (c)	114. (d)
	108. (c) 1	09. (c)	110.	(c)	18 (c)	11	9. (b)	1	20. (d)	121. (b)
	115. (c) 1	16. (d)	117.	(u)					(Second)	
	122. (b) 1	23. (b)	124.	(d)	25. (b)	1		12 2 20		and the second second

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NUMBER SERIES

This chapter consists of questions in which series of numbers are given, which are generally called the terms of the series. These terms follow a certain pattern throughout the series. The candidate is required to study the given series, identify the pattern followed in the series and either complete the given series with the most suitable alternative or find the wrong term in the series.

SOLVED EXAMPLES

Case I : Completing The Given Series By Finding The Miss	
Directions : Find the missing term in each of the following	series :
Ex. 1. 1, 6, 15, ?, 45, 66, 91	i ne sti
(a) 25 (b) 26 (c) 27	(d) 28
Sol. Clearly, the given sequence follows the pattern : $+5$, $+25$,	9, + 13, + 17, + 21,
Thus, $1 + 5 = 6$, $6 + 9 = 15$,	
So, missing term = $15 + 13 = 28$.	
Hence, the answer is (d) .	
Ex. 2. 2, 5, 9, 19, 37, ?	Sin . me
(a) 73 (b) 75 (c) 76	(d) 78
Sol. Clearly, we have :	hard for the
$2 \times 2 + 1 = 5, 5 \times 2 - 1 = 9, 9 \times 2 + 1 = 19, 19 \times 2 - 1 = 10$	37,
So, missing term = $37 \times 2 + 1 = 75$.	
Hence, the answer is (b).	
Ex. 3. 4, 8, 28, 80, 244, ?	ب بالمرابقة بالمراجعة الم
(a) 278 (b) 428 (c) 628	(d) 728
Sol. The terms of the given series are : $3^1 + 1$, $3^2 - 1$, $3^3 + 1$, So, missing term = $3^6 - 1 = 729 - 1 = 728$. Hence, the answer is (d).	$3^4 - 1, 3^5 + 1, \dots$
(a) 10241 (b) 10423 (c) 10781	
Sol. Clearly, alternately we add and subtract 10% of a term to o	btain the next term
of the series. $(10\% + 10000) = 11000(100\% + 1000)$	
Thus, $10000 + (10\% \text{ of } 10000) = 11000; 11000 - (10\% \text{ of } 11000) = 10000; 10000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 1000000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 10000000; 100000 - (10\% \text{ of } 11000) = 1000000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 100000; 100000 - (10\% \text{ of } 11000) = 10000; 100000 - (10\% \text{ of } 110000) = 100000; 1000000 - (10\% \text{ of } 110000) = 10000; 100000 - (10\% \text{ of } 10000) = 1$	
9900 + (10% of 9900) = 10890, 10890 - (10% of 10)	
So, missing term = $9801 + (10\% \text{ of } 9801) = 9801 + 980 = 10$	0781.
Hence, the answer is (c).	
Ma. b 0, 0, 24, 00, 150, 210. "	* •
	(d) 504 '
Sol. Clearly, the given series is: 1^{-1} , $2^{3} - 2$, $3^{3} - 3$, $4^{3} - 4$, 5^{-1} . Missing term = $7^{3} - 7 = 343 - 7 = 336$.	5 [°] - 5, 6 [°] - 6
Hence, the answer is (c). 294	

5					Objective A-theory
	Ex. 6.	1, 4, 27, 16, ?, 30	6, 343		Objective Arithmetic
		(a) 25	(b) 87	(a) 120	· · · · · ·
	Sol.	Clearly, the give numbers, <i>i.e.</i> , 1^3	n series consists , 2 ² , 3 ³ , 4 ² ,	(c) 120 of cubes of odd m	(d) 125 umbers and squares of even
		So, missing tern			
		Hence, the answ	ver is (d) .		
	Ex. 7.	4, 6, 12, 14, 28,	S C RESIDENT SUBSCRIPTION (S)		
		(a) 32	(b) 60	(c) 62	(d) 64
	Sol.	The given seque		tion of two serie	(<i>u</i> , <i>r</i> ,
	we blief	1. 4, 12, 28, ?	and sold	II 6 14 30	
		Now, the pattern	n followed in each	of the above two	, series is : + 8, + 16, + 32,
		So, missing num	nber = (28 + 32) =	60	
		Hence, the answ		00.	
	Ex. 8	. 1, 3, 3, 6, 7, 9,		2•1	
	2	(a) 10	(b) 11	(c) 12	(d) 13
: -	Sol	. Clearly, the giv			
	•		and		
		and the second			attern followed in II is + 3.
			mber = 7 + 6 = 13	2	
		Hence, the ans	wer is (d) .		
	Ex. S	. Which fraction			C 10
		(a) $\frac{9}{32}$		(c) $\frac{11}{34}$	
	So	1, 3, 5, 7, in wh	nich each term is	obtained by adda	In sequence form the series $\frac{1}{2}$ to the previous term.
		The denominat	ors of the fraction	s form the series	$2, 4, 8, 16, i.e., 2^1, 2^2, 2^3, 2^4$.
		will be 2^5 <i>i.e.</i> 3	2.) i.e. 9 and the denominator
			term is $\frac{9}{32}$. Hen	ce, the answer is	(a).
	Trian	gular Pattern S	eries :	051 7846	Construction Comm
	a ser agai betv	rics. The difference n form a series. veen the consecut	es between the con This pattern con ive terms of the s	nsecutive terms o tinues till we at series.	ms of a series, again form f the new series so formed, tain a uniform difference
	Ex. 1	0. Find the missin	ng term in the set	ries : 3, 20, 63, 14	4, 275, ?
		(a) 354	(b) 468	(c) 548	(d) 554
	Sc		bove, we may lab as shown below :		s as series I and then form
1.20	Sales Sta	Seat Shared and the second second		3 144 2	75 ?
	Al and	Series II :	17 43	81 131	?
		Series III : Series IV :	26 3 12	8 50 12	1

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Number Series

Clearly, the pattern in series III is + 12.

So, missing term in series III = 50 + 12 = 62;

missing term in series II = 131 + 62 = 193;

missing term in series I = 275 + 193 = 468.

Thus, the missing term is 468. Hence, the answer is (b).

Direct Method : Clearly, we have :

Missing term = 275 + (131 + 50 + 12) = 468.

EXERCISE

Directions : In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

1. 1, 9, 25, 49, ?, 12	21	0	
(a) 64	(b) 81	(c) 91	(d) 100
2. 4, 7, 12, 19, 28, 3	?	2	(==,:_
(a) 30	(b) 36	(c) 39	(<i>d</i>) 49
3. 11, 13, 17, 19, 23	, 25, ?	Particle of the statement of the statement	
(a) 26	(b) 27	(c) 29	(d) 37
4. 6, 12, 21, ?, 48	1 Minute	er de complexite	
(a) 33	(b) 38	(c) 40	(d) 45
5. 2, 5, 9, ?, 20, 27		bi i constante de la constante	(4) 40
(a) 14	(b) 16	(c) 18	(<i>d</i>) 24
6. 6, 11, 21, 36, 56,	? .		
(a) 42	(b) 51	(c) 81	(2) 01
7. 10, 18, 28, 40, 54,	, 70, ?	which is a start of the	(d) 91
(a) 85	(b) 86	(c) 87	(1) 00
8. 120, 99, 80, 63, 48		A CONTRACT NELONA	(<i>d</i>) 88
(a) 35		(c) 39	
9. 22, 24, 28, ?, 52, 8	34		(<i>d</i>) 40
(a) 36	(b) 38	(c) 42	(··· ·
10. 4832, 5840, 6848,	?	100091 (1) 42	(d) 46
(a) 7815	(b) 7846	(1) 7050	12.3
11. 10, 100, 200, 310,	?	(c) 7856	(d) 7887
(a) 400	(6) 410	Teller with the state of the state	
12. 0, 2, 8, 14, ?, 34		(c) 420	(d) 430
(a) 20	(6) 23	The self is showing without	CAR IN THE REAL PROPERTY OF
13. 28, 33, 31, 36, ?, 39		(c) 24	(d) 25
(a) 32			IN BUT TO THE WAY
14. 125, 80, 45, 20, ?	(b) 34	(c) 38	(d) 40
(a) 5	(b) 8	- walked assessed an off	and the second second
15. 1, 5, 13, 25, 41, ?		(c) 10	(d) 12
(a) 51	16] //g	11 2 11	and a state
all and the set	(b) 57	(c) 61	(d) 63
	and the second	A AR CONTRACT	(14) 00

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				Objective Arithme
	16. 2, 15, 41, 80, ?			
	(a) 111	<i>(b)</i> 120	(c) 121	(<i>d</i>) 132
	17. 6, 17, 39, 72, ?			
	(a) 83	(b) 94	(c) 116	(d) 127
	18. 325, 259, 204, 16	0, 127, 105, ?		
	(a) 94	(b) 9 6	(c) 98	(d) 100
	19. 1, 4, 10, 22, 46,	?		(4) 100
	(a) 64	(b) 86	(c) 94	(d) 122
	20. 0.5, 0.55, 0.65, 0	.8, ?		(u) 122
	(a) 0.9	(b) 0.82	(c) 1	(d) 0.95
	21. 5, 6, 9, 15, ?, 40		(C) 1	(a) 0.00
	(a) 21	(b) 25	(c) 27	(<i>d</i>) 33
	22. 2, 3, 5, 7, 11, ?,		(C) 21	(u) 55
•	(a) · 12	(b) 13	(c) 14	(d) 15
	23. 4, 9, 25, ?, 121, 1		() 14	(4) 10
	(a) 49	(b) 64	(c) 81	(d) 87
	24. 1, 9, 25, 49, 81,			(1) 01
	(a) 100	· (b) 112	(c) 121	(d) 144
	25. 1, 1, 4, 8, 9, 27,	ACCENTER OF		(0) 211
	(a) 32	(b) 64	(c) 81	(d) 256
	26. 4, 12, 36, 108, ?			
	(a) 144	(b) 216	(c) 304	(d) 324
	27. 1. 1, 2, 6, 24, ?,		e C 🖻 Kiel	and a large the
	(a) 100	(b) 104	(c) 108	(d) 120
	28. 240, ?, 120, 40, 1	0, 2		· · · · · · · · · · · · · · · · · · ·
	(a) 180		(c) 420	(d) 480
				an in the second se
	29. 4, 6, 9, $13\frac{1}{2}$, ?	(a) AUSY	- D011 (\$
	(a) $17\frac{1}{2}$	(b) 19	(c) $20\frac{1}{4}$	(d) $22\frac{3}{4}$
	Le La Lair	- 192 A. C.D.	4	-4
	30. 5760, 960, ?, 48,		(a) 102	(d) 240
	(a) 120		(c) 192	(4) 240
	31. 1, 2, 6, 7, 21, 22,	66, 67, ? (b) 134	(a) 201	(d) 301
	(a) 10 32 48 94 06 40 10	(6) 134	(0) 201	(4) 001
	32. 48, 24, 96, 48, 19	(b) 90	(c) 96	(<i>d</i>) 98
	33. 1, 2, 3, 6, 9, 18, 3	(0) 90	(1) 50	N L L L L L L L L L L L L L L L L L L L
	(a) 18	(b) 27	(c) 36	(d) 81
	34. 165, 195, 255, 28	5 345 7		1 HSL 1 1 1 1 12
	(a) 375	(b) 390 (b)	(c) 420	(d) 435
	35. 9, 27, 31, 155, 16	1. 1127. ?		699
	(a) 316	(b) 1135	(c) 1288	(d) 2254

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Objective Arithmetic

Number Series 36. 2, 3, 3, 5, 10, 13, ?, 43, 172, 177 (b) 38 (a) 23 37. 3, 15, ?, 63, 99, 143 (b) 35 (a) 27 38. 7, 26, 63, 124, 215, 342, ? (b) 421 (a) 391 39. 3, 7, 15, ?, 63, 127 (b) 31 (a) 30 40. 4, 10, ?, 82, 244, 730 (b) 28 (a) 24 41. 6, 13, 25, 51, 101, ? (b) 202 (a) 201 42. 8, 28, 116, 584, ? (b) 3502 (a) 1752 43. 6, 13, 28, 59, ? (b) 113 (a) 111 44. 3, 7, 23, 95, ? (b) 128 (a) 62 45. 2, 3, 8, 27, 112, ? (b) 339 (a) 226 46. 1, 5, 14, 30, 55, 91, ? (b) 140 (a) 130 47. 198, 194, 185, 169, ? (b) 112 (a) 92 48. 2, 2, 5, 13, 28, ? (b) 50 (a) 49 49. 2, 7, 27, 107, 427, ? (b) 1707 (a) 1262 50. 24, 60, 120, 210, ? (a) 300 (b) 336 51. 3, 12, 27, 48, 75, 108, ? (a) 147 (b) 162 52. 563, 647, 479, 815, ? (a) 672 (b) - 38653. 5, 2, 7, 9, 16, 25, ? (a) 41 (b) 45 👘 54. 10 14 26, 42, 70, ? (a) 100 (b) 102 55. 2, 8, 16, 128, ? (a) 2042 (b) 2046 56. 3, 10, 101, ? (a) 10101 (b) 10201

(c) 39	(d) 40
(c) 45	(<i>d</i>) 56
(c) 481	(<i>d</i>) 511
	· · · · · ·
(c) 47	(<i>d</i>) 52
	(d) 218
(c) 77	(a) 210
	(d) 205
(c) 203	(4) 200
	(d) 3508
(c) 3504	
(c) 114	(d) 122
(0) 114	(···· ···
(c) 479	(d) 575
	en state i tra 🚑
(c) 452	(d) 565
(c) 150	(<i>d</i>) 160
() 100	
(c) 136	(<i>d</i>) 144
(c) 51	(d) 52
(0) 01	
(c) 4027	(d) 4207
(c) 420	(d) 525
	an area way to the the
(c) 183 (d)	(d) 192
1.67.7	21 1 2 6 1 21 22, 64
(c) 279	(d) 143
	32, 48 J. 18, 18, 192,
	(<i>d</i>) 52
	33 1 2 4 4 4 4 4 4
	(d) 114
(c) 2048	(d) 2056
11/21	194-ANT 1 2 15 0 28
(c) 10202	(d) 11012
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·			
57. 589654237, 89654	237, 8965422 005		Objective Arithmetic
(a) 58965	(b) 65423, 96542	23, ?	
58. 5824, 5242, ?, 424		(c) 89654	(d) 96542
(a) 4467	(b) 4718		(a) 50,12
59. 1, 3, 4, 8, 15, 27,	?	(c) 4856	(d) 5164
(a) 37	(b) 44		
60. 66, 36, 18, ?	(0) 11	(c) 50	(d) 55
(a) 3	<i>(b)</i> 6		
61. 3, 8, 13, 24, 41, ?		(c) 8	(d) 9
(a) 70	(b) 75	1	
62. 45, 54, 47, ?, 49, 8	56 51 57 52	(c) 80	(d) 85
(a) 48	(b) 50		
63. 6, 18, 3, 21, 7, 56		(c) 55	(d) None of these
(a) 8	(b) 9 	() . ee	•
64. 2, 15, 4, 12, 6, 7,		(c) 63	(d) 64
(a) 8, 8			(
65. 20, 20, 19, 16, 17,		(c) 3, 8	(d) None of these
(a) 10, 10		(2) 12 14	() 10 10
66. 0, 2, 3, 5, 8, 10, 1		(c) 13, 14	(<i>d</i>) 13, 16
(a) 28	(b) 30	(c) 32	(d) 25
67. 13, 35, 57, 79, 911			(d) 35
(a) 1110	(b) 1112	(c) 1113	(d) 1315
68. 625, 5, 125, 25, 25			(1) 1010
(a) 5		(c) 125	(d) 625
69. 3, 4, 7, 7, 13, 13, 2	21, 22, 31, 34, ?		(0) 020
(a) 42	(b) 43	(c) 51	(<i>d</i>) 52
70. 11, 10, ?, 100, 1001	l, 1000, 10001		
(a) 101	(b) 110	(c) 111	(d) None of these
71. 13, 32, 24, 43, 35,	?, 46, 65, 57, 76		
(a) 45	(b) 52	(c) 54	(d) 55
72. 0, 4, 6, 3, 7, 9, 6, ?	2, 12	88 s g 11 1995	
(a) 8	(b) 10	(c) 11	(d) 14
73. 2, 1, 2, 4, 4, 5, 6, 7			
(a) 9	(b) 10	(c) 11	(<i>d</i>) 12
74. 8, 9, 8, 7, 10, 9, 6,	Centre of a filler and a		
(a) 5		(c) 8	(d) 11
75. 90, 180, 12, 50, 100			second and the IT.
(a) 150	(b) 175	(c) 225	(d) 250
	10	101 + 0 + 3 ⁺	produce patrice bail 171. Inc.
76. $\frac{2}{3}, \frac{4}{7}, \frac{11}{21}, \frac{16}{31}$			instanting of a Di-
$(\alpha) \frac{5}{9}$	6	(c) $\frac{7}{1}$	(d) $\frac{9}{17}$
(a) <u>.</u>	(b) $\frac{1}{11}$	(c) <u>13</u>	11

Number Series

2. (c) : The pattern is -			
1. (b) : The given serie So, missing ter	s consists of square $m = 9^2 = 81$.	es of consecutive odd numb	pers <i>i.e.</i> 1 ² , 3 ² , 5 ² , 7 ² ,
	ANSWERS	(EXERCISE	
(a) 50	(b) 65	(c) 70	(d) <u>82</u>
82. 2, 9, 28, ?, 126, 21	7, 344		
(a) 194	(b) 210	(c) 252	(<i>d</i>) 258
81. 2, 12, 36, 80, 150,		(0) 410	
80. 3, 10, 29, 66, 127, (a) 164	? (b) 187	(c) 216	(d) 218
(a) $8\frac{1}{3}$	(b) $19\frac{1}{2}$	(c) 20	(d) $22\frac{1}{3}$
79. $11\frac{1}{9}$, $12\frac{1}{2}$, $14\frac{2}{7}$, 16	· .		
(a) $\frac{6}{5\sqrt{5}}$	$(b) \ \frac{6}{25\sqrt{5}}$	(c) $\frac{6}{125}$	$(d) \frac{7}{25}$
78. $\frac{2}{\sqrt{5}}$, $\frac{3}{5}$, $\frac{4}{5\sqrt{5}}$, $\frac{5}{25}$, ?			
(a) $\frac{17}{40}$	(b) $\frac{19}{42}$	(c) $\frac{20}{45}$	(d) $\frac{29}{53}$
77. $\frac{4}{9}$, $\frac{9}{20}$, ?, $\frac{39}{86}$			

- **3.** (c) : The pattern is +2, +4, +2, +4, ...So, missing term = 25 + 4 = 29.
- 4. (a) : The pattern is $+ 6, + 9, + 12, + 15, \dots$ So, missing term = 21 + 12 = 33.
- 5. (a) : The pattern is $+3, +4, +5, +6, \dots$ So, missing term = 9 + 5 = 14.
- 6. (c) : The pattern is + 5, + 10, + 15, + 20, So, missing term = 56 + 25 = 81.
- 7. (d) : The pattern is $+ 8, + 10, + 12, + 14, \dots$ So, missing term = 70 + 18 = 88.
- 8. (a) : The pattern is $-21, -19, -17, -15, \dots$ So, missing term = 48 - 13 = 35.
- 9. (a) : The pattern is $+2, +4, +8, +16, \dots$ So, missing term = 28 + 8 = 36.
- 10. (c) : The pattern is + 1008.
- So, issing term = 6848 + 1008 = 7856. 11. (d) : The pattern is $+90 + 100, +110, \dots$
- So, missing term = 310 + 120 = 430. 12. (c) • The pattern is +2, +6, +6, +10, +10,
- So, missing term = 14 + 10 = 24.
- **13.** (b) : The pattern is +5, -2, +5, -2, ...So, missing term = 36 - 2 = 34.

14. (a) : The pattern is - 45, - 35, - 25, So, missing term = 20 - 15 = 5. 15. (c) : The pattern is + 4, + 8, + 12, + 16, So, missing term = 41 + 20 = 61. 16. (d): The pattern is + 13, + 26, + 39, So, missing term = 80 + 52 = 132. 17. (c) : The pattern is + 11, + 22, + 33, So, missing term = 72 + 44 = 116. 18. (a) : The pattern is $-66, -55, -44, -33, -22, \dots$ So, missing term = 105 - 11 = 94. **19.** (c) : The pattern is + 3, + 6, + 12, + 24, So, missing term = 46 + 48 = 94. 20. (c) : The pattern is + 0.05, + 0.10, + 0.15, So, missing term = 0.8 + 0.20 = 1. **21.** (b) : The pattern is +1, +3, +6,, *i.e.* +1, +(1, +2), +(1 + 2 + 3), So, missing term = 15 + (1 + 2 + 3 + 4) = 25. 22. (b): Clearly, the given series consists of prime numbers starting from 2. So, the missing term is the prime number after 11, which is 13. 23. (a) : The given series consists of squares of consecutive prime numbers i.e. 2², 3², 5²,, 11^2 , 13^2 , 17^2 , 19^2 . So, missing term = $7^2 = 49$. 24. (c) : The series consists of squares of consecutive odd numbers i.e. 1², 3², 5², 7², 9², So, missing term = $11^2 = 121$. **25.** (b) : The series consists of squares and cubes of consecutive natural numbers *i.e.* 1^2 , 1^3 , 2^2 , $2^3, 3^2, 3^3, 4^2, \ldots$ So, missing term = $4^3 = 64$. **26.** (d) : The pattern is \times 3. So, missing term = $108 \times 3 = 324$. **27.** (d) : The pattern is $\times 1, \times 2, \times 3, \times 4, \dots$ So, missing term = $24 \times 5 = 120$. **28.** (b) : The pattern is $\div 1, \div 2, \div 3, \div 4, \div 5$. So, missing term = $240 \div 1 = 240$. **29.** (c) : The pattern is $\times \frac{3}{2}$. So, missing number = $13\frac{1}{2} \times \frac{3}{2} = \frac{27}{2} \times \frac{3}{2} = \frac{81}{4} = 20\frac{1}{4}$. **30.** (c) : The pattern is $\div 6$, $\div 5$, $\div 4$, $\div 3$, $\div 2$. So, missing term = $960 \div 5 = 192$. 31. (c) : The pattern is +1, $\times 3$, +1, $\times 3$, +1, $\times 3$, +1, $\times 3$, +1, So, missing term = $67 \times 3 = 201$. **32.** (c) : The pattern is $\div 2, \times 4, \div 2, \times 4, \dots$ So, missing term = 192 + 2 = 96. **33.** (b) : The pattern is $\times 2, \times \frac{3}{2}, \times 2, \times \frac{3}{2}, \times 2, \dots$ So, missing term = $18 \times \frac{3}{2} = 27$. 34. (d) : Each number of the series is 15 multiplied by a prime number *i.e.* 15×11 , 15×13 , 15 × 17, 15 × 19, 15 × 23, So, missing term = $15 \times 29 = 435$. **35.** (b) : The pattern is $\times 3, +4, \times 5, +6, \times 7, \dots$ So, missing term = 1127 + 8 = 1135.

Number Series

22 (1) (1) a mother in (1) (1) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
36. (c) : The pattern is $+1$, $\times 1$, $+2$, $\times 2$, $+3$, $\times 3$, $+4$, $\times 4$, $+5$.
So, missing term = $13 \times 3 = 39$. 37. (b) : The terms of the given series are $(2^2 - 1)$, $(4^2 - 1)$,, $(8^2 - 1)$, $(10^2 - 1)$, $(12^2 - 1)$.
37. (b) : The terms of the given series are $(2 - 1)$, $(4 - 1)$,, (2
So, missing term = $(6^2 - 1) = (36 - 1) = 35$. 38. (d) : The terms of the given series are $(2^3 - 1)$, $(3^3 - 1)$, $(4^3 - 1)$, $(5^3 - 1)$, $(6^3 - 1)$, $(7^3 - 1)$
38. (d): The terms of the given series are $(2^{n} - 1)$, $(3^{n} - 1)$, $(4^{n} - 1)$, (4
$(1 - 1), \dots,$
So, missing term = $(8^3 - 1) = (512 - 1) = 511$.
So, missing term = $(8^{-1}) = (312^{-1})^{-1}$ out of (b) : Each number in the series is one more than twice the preceding number.
So missing term = $(15 \times 2) + 1 = 31$.
40. (b) : Each number in the series is 2 less than thrice the preceding number.
So, missing number = $(10 \times 3) - 2 = 28$.
41. (c) : The pattern is $\times 2 + 1$, $\times 2 - 1$, $\times 2 + 1$, $\times 2 - 1$,
So, missing term = $101 \times 2 + 1 = 203$.
42. (d) : The pattern is $\times 3 + 4$, $\times 4 + 4$, $\times 5 + 4$,
So, missing term = $584 \times 6 + 4 = 3508$.
43. (d) : The pattern is $\times 2 + 1$, $\times 2 + 2$, $\times 2 + 3$,
So, missing term = $59 \times 2 + 4 = 122$.
44. (c) : The pattern is $\times 2 + 1$, $\times 3 + 2$, $\times 4 + 3$,
So, missing term = $95 \times 5 + 4 = 479$.
45. (d) : The pattern is $\times 1 + 1$, $\times 2 + 2$, $\times 3 + 3$, $\times 4 + 4$,
So, missing term = $112 \times 5 + 5 = 565$.
46. (b) : The pattern is + 4, + 9, + 16, + 25, + 36, <i>i.e.</i> + 2^2 , + 3^2 , + 4^2 , + 5^2 , + 6^2 ,
So, missing term = $91 + 7^2 = 91 + 49 = 140$.
47. (d) : The pattern is $-4, -9, -16, \dots, i.e2^2, -3^2, -4^2, \dots$
So, missing pattern $\approx 169 - 5^2 - 160 - 95 - 144$
48. (d): The pattern is + 0, + 3, + 8, + 15 is $t + (1^2 - 1) + (1^2 - 1)$
So, missing term = $28 + (5^2 - 1) = 28 + 24 = 52$.
49. (b) : The pattern is + 5, + 20, + 80, + 320, <i>i.e.</i> + (5×1^2) , + (5×2^2) , + (5×4^2) ,
$+(5 \times 8^2), \dots$
So, missing term = $427 + (5 \times 16^2) = 427 + 1280 = 1707$.
(0): The pattern is + 36, + 60, + 90
So, missing term = $210 + [6 \times (6 + 15)] = 210 + 126 = 336$. 51. (a) : The terms of the given series as $0 = 210 + 126 = 336$.
voting of the given sering and 2 . 16 o by
So, missing term = $3 \times 7^2 = 3 \times 49 = 147$.
50, missing term = $3 \times 7^2 = 3 \times 49 = 147$. 52. (d) : The pattern is + 84, - 168, + 336, <i>i.e.</i> + 84, - (84 × 2), + (84 × 2 ²), So, missing term = 815 - (84 × 2 ³) = 815 - 672 = 140
So, missing term = $815 - (84 \times 2^3) = 815 - 672 = 143$.
So a the series, except the first two terms is the
 50, missing term = 16 + 25 = 41. 54. (d): Each term in the series, except the first two terms, is 2 more than the sum of the preceding two terms. So, missing terms. 55. (c): F.
preceding two targets, except the first two terms in a
So, missing term = $(42 + 70) + 2 = 114$. 55. (c) : Each term in the sum of the
55. (c): Each term in the series $(42 \pm 70) + 2 = 114$.
 55. (c): Each term in the series, except the first two terms, is the product of the preceding 56. (c): Each term = 16 × 128 = 2048
So, missing term = $16 \times 128 = 2048$. 56. (c) : Each term in the main in the
So min the series is obtained by
57. (d): The distance $(101)^2 + 1 = 10209$
so as to obtain a
50, missing term = $(101)^2 + 1 = 10202$. 50 as to obtain the subsequent terms of the beginning and the end in order alternately
series.

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	=0 (h)	Each term in the series is able in an Objective Arithmetic
	58. (0)	
		formed by the first three digits of the preceding term the number So, missing term = $5242 - 524 = 4718$.
	50 (c)	320, 100000000000000000000000000000000000
	99. (C)	: The sum of any three consecutive terms of the series gives the next term. So, missing number = $8 \pm 15 \pm 27$.
	60. (c)	: Each term in the series is the product of the digits of the preceding term. So, missing term = $1 \times 8 = 8$
		$\gamma = 0$
	61. (<i>a</i>)	: The pattern followed is :
		nth term + $(n + 1)$ th term + $(n + 1) = (n + 2)$ th term.
		Finds, 1st term + 2nd term + $2 = 3rd$ term:
		2nd term + 3rd term + $3 = 4$ th term and so on
		so, missing term = 6th term = 4th term + 5th term + 5 = $24 + 41 + 5 - 70$
	62. (c)	. The given sequence is a combination of two series :
		I. 45, 47, 49, 51, 53 and II. 54, ?, 56, 57
		Clearly, II consists of consecutive natural numbers, starting from 54.
		So, missing term = 55 .
	63. (a)	: Each term at an even place in the series is the product of its two adjacent terms.
		Thus, if the missing term be x, then we have :
		$7 \times x = 56$ or $x = 56 \div 7 = 8$.
	64. (b)	: Let the missing terms of the series be x_1 and x_2 .
		Thus, the sequence 2, 15, 4, 12, 6, 7, x_1 , x_2 is a combination of two series :
		I. 2, 4, 6, x, and II. 15, 12, 7, x,
		I consists of consecutive even numbers. So, missing term, $x_1 = 8$.
		The pattern in II is $-3, -5,$. So, missing term, $x_2 = 7 - 7 = 0$.
	65. (a)	: Let the missing terms of the series be x_1 and x_2 .
	·	Thus, the sequence 20, 20, 19, 16, 17, 13, 14, 11, x_1, x_2 is a combination of two series :
		I. 20, 19, 17, 14, x_1 and II. 20, 16, 13, 11, x_2
		The plattern in I is $-1, -2, -3, \dots$. So, missing term, $x_1 = 14 - 4 = 10$.
		The pattern in II is $-4, -3, -2, \dots$. So, missing term, $x_2 = 11 - 1 = 10$.
*	66. (<i>d</i>)	: The given sequence is a combination of two series :
	100 1	I. 0, 3, 8, 15, 24, ? and II. 2, 5, 10, 17, 26
		The pattern in each one of I and II is $+3, +5, +7, +9, \dots$
		So, missing term = $24 + 11 = 35$.
-	67. (c)	. The terms of the given series are numbers formed by joining together consecutive odd
		numbers in order <i>i.e.</i> 1 and 3, 3 and 5, 5 and 7, 7 and 9, 9 and 11,
		So, missing term = number formed by joining 11 and $13 = 1113$.
	68. (c)	: The given sequence is a combination of two series :
		I. 625, 125, 25, 5 and II. 5, 25, ?
,		The pattern in I is \div 5, while that in II is \times 5.
1		So, missing term = $25 \times 5 = 125$.
	69. (b)	: The given sequence is a combination of two series :
(i.*.)		I. 3, 7, 13, 21, 31, ? and II. 4, 7, 13, 22, 34
		The pattern in I is $+4$, $+6$, $+8$, $+10$,
	÷.	The pattern in II is $+3, +6, +9, +12,$
	100 A.	So, missing term = $31 + 12 = 43$.
1	70. (a)	: The pattern is -1 , $\times 10 + 1$, -1 , $\times 10 + 1$, -1 , $\times 10 + 1$,
N.	land - 1	So, missing term = $10 \times 10 + 1 = 101$.
200	the st	, mooning term - to a to
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Objective

Number Series

71. (c) : The given sequence is a combination of two series : 11. 32. 43, ?, 65, 76 1. 13, 24, 35, 46, 57 and The pattern in both I and II is + 11. So, missing term = 43 + 11 = 54. 72. (b) : The given sequence is a combination of three series : 1.0,3,6 11.4.7.? 111. 6, 9, 12 The pattern in each of these series is +3. So, missing term = 7 + 3 = 10. 73. (b) : The given sequence is a combination of three series : I. 1st, 4th, 7th, 10th, 13th terms i.e. 2, 4, 6, 8, ? II. 2nd, 5th, 8th, 11th terms i.e. 1, 4, 7, 10 III. 3rd, 6th, 9th, 12th terms i.e. 2, 5, 8, 11 Clearly, I consists of consecutive even numbers. So, the missing term is 10. 74. (a) : The given sequence is a combination of three series : I. 1st, 4th, 7th, 10th terms i.e. 8, 7, 6, ? II. 2nd, 5th, 8th, 11th terms i.e. 9, 10, 11, 12 III. 3rd, 6th, 9th terms i.e. 8, 9, 10 The pattern in I is -1. So, missing term = 6 - 1 = 5. 75. (a) : Clearly, $90 = 30 \times 3$, $180 = 6 \times 30$, $12 = 2 \times 6$, $50 = 25 \times 2$, $100 = 4 \times 25$, $200 = 50 \times 4$. So, missing term = $3 \times 50 = 150$. 76. (c): The sequence in the numerators is +2, +3, +4, +5 and that in the denominators is +4, +6, +8, +10.So, the numerator of the missing fraction should be (4 + 3) i.e. 7 and the denominator should be (7 + 6) *i.e.* 13. Thus, the missing term is $\frac{1}{13}$. 77. (b) : The sequence in the numerators is +5, +10, +20, and that in the denominators So, the numerator of the missing fraction should be (9 + 10) *i.e.* 19 and the denominator should be (20 + 22) *i.e.* 42. Thus, the missing term is $\frac{19}{42}$ 78. (b) : Clearly, the numerators of the given fractions are consecutive natural numbers. So, the numerator of the missing fraction should be 6. Also, the denominator of each fraction is multiplied by $\sqrt{5}$ to obtain the denominator of the next fraction. So, the denominator of the missing fraction should be $25\sqrt{5}$. Hence, the missing term is $\frac{6}{25\sqrt{5}}$ 79. (c): The given sequence is $\frac{100}{9}, \frac{25}{2}, \frac{100}{7}, \frac{50}{3}, \cdots$ So, missing term = $\frac{100}{5}$ = 20. 6' 80. (d): The given series is a triangular pattern series. So, we have : 29 66 127 7 19 61 12 18 24 6 So, missing term = 127 + (61 + 24 + 6) = 127 + 91 = 218.

Objective Arithmetic

81. (c) : The given series is a triangular pattern series. So, we have :

	12		36		80		150	?
10		24		44		70		
	14		20		26			
		6		6				

So, missing term = 150 + (70 + 26 + 6) = 150 + 102 = 252.

82. (b): This is a triangular pattern series. So, we have :

Series I	: 2		9		28		?		126		217		34/	1
Series II	:	7		19		?		?		91		127		
Series III	:		12		?		?		?		36			
CI I I.	C .	100		10	23	8	102							

Clearly, to form a pattern, the missing terms in Series III must be 18, 24, 30.

So, missing term in given series = 28 + (19 + 18) = 28 + 37 = .65.

Case II : Finding the Wrong Term in the Given Series

Ex. 1. Find the wrong number in the series :

- 7, 28, 63, 124, 215, 342, 511
- (e) 342 (c) 124 (d) 215 (a) 7 (b) 28

Sol. Clearly, the correct sequence is :

 $2^{3} - 1, 3^{3} - 1, 4^{3} - 1, 5^{3} - 1, 6^{3} - 1, 7^{3} - 1, 8^{3} - 1$

So, 28 is wrong and should be replaced by $(3^3 - 1)$ *i.e.* 26.

Hence, the answer is (b).

(a) 15

Ex. 2. Find the wrong number in the series :

3, 8, 15, 24, 34, 48, 63

(e) 63 (d) 48 (c) 34 (b) 24

Sol. The difference between consecutive terms of the given series are respectively 5, 7, 9, 11, 13 and 15.

Clearly, 34 is a wrong number and must be replaced by (24 + 11) i.e. 35.

Hence, the answer is (c).

Ex. 3. Identify the wrong number in the series :

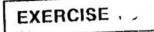
69, 55, 26, 13, 5

(M.A.T. 2003)

(d) 55

(c) 26 (b) 13 (a) 5Sol. Clearly, in the given series, each term is one more than the product of the digits of the preceding term. Thus, $(6 \times 9) + 1 = 55$, $(5 \times 5) + 1 = 26$, $(2 \times 6) + 1 = 13$. So, 5 is wrong and must be replaced by $(1 \times 3) + 1$ *i.e.* 4.

Hence, the answer is (a).



Directions (Questions 1 to 40) : In each of the following questions, one term in the number series is wrong. Find out the wrong term.

1. 190, 169, 144, 12	1, 101	Star 7 -	(d) 196	1
(a) 101	(b) 121	(c) 169	((1) 100	
2. 3, 10, 27, 4, 16, 6	54, 5, 25, 125	118 62 1	(d) 27	
(a) 3	(b) 4 (b) (b)	(c) 10	(0.7 = -	
3. 25, 36, 49, 81, 12	21, 169, 225	084	(d) 225	3
(a) 36	(b) 49 🔜 😭	(c) $169 $	(00)	

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4. 2, 5, 10, 17, 26, 37, 50, 64	
(a) 17 (b) 26	(c) 37
5. 5, 27, 61, 122, 213, 340, 509	
(a) 27 (b) 61	(c) 122
6. 121, 143, 165, 186, 209	
(a) 143 (b) 165	(c) 186
7. 16, 22, 30, 45, 52, 66	
(a) 30 (b) 45	(c) 52
8. 8, 13, 21, 32, 47, 63, 83	
	(c) 32
	(-)
9. 4, 10, 22, 46, 96, 190, 382	(c) 96
(a) 4 (b) 10	(0) 00
10. 125, 126, 124, 127, 123, 129	(c) 123
(a) 126 (b) 124	(0) 120
11. 105, 85, 60, 30, $0, -45, -90$	(c) 0
(a) 105 (b) 60	
12, 325, 259, 202, 160, 127, 105, 94	(c) 202
(a) 94 (b) 127 12 280 188 02 48 20 8 2	(0) 202
13. 380, 188, 92, 48, 20, 8, 2 (a) 8 (b) 20	(c) 48
	(0) 40
14. 89, 78, 86, 80, 85, 82, 83	(c) 86
(a) 83 (b) 82	(0) 80
15. 56, 58, 62, 70, 84, 118, 182 (a) 58 (b) 62	(c) 84
16. 15, 16, 22, 29, 45, 70	() 04
(a) 16 (b) 22	(c) 45
17. 1, 2, 4, 8, 16, 32, 64, 96	(C) 40
(a) 4 (b) 32	(c) 64
18. 24576, 6144, 1536, 386, 96, 24	(L) 04
(a) 96 (b) 386	(c) 1536
19. 6, 15, 35, 77, 165, 221	(C) 1550
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(a) 165
20. 2, 5, 10, 50, 500, 5000	(c) 165
$\begin{array}{c} (a) 5 \\ (b) 10 \\ (c) 10$	(.) 50
21. 46080, 3840, 384, 48, 24, 2, 1	(c) 50
(a) 384 (b) 48	
	(c) 24
22. 5, 10, 40, 80, 320, 550, 2560	
22. 5, 10, 40, 80, 320, 550, 2560 (a) 80 (b) 320	(c) 550
22. 5, 10, 40, 80, 320, 550, 2560 (a) 80 (b) 320 23. 10, 14, 28, 32, 64, 68, 132 (c) 80	
22. 5, 10, 40, 80, 320, 550, 2560 (a) 80 (b) 320 23. 10, 14, 28, 32, 64, 68, 132 (a) 28 (b) 32	(c) 550 (c) 64
22. 5, 10, 40, 80, 320, 550, 2560 (a) 80 (b) 320 23. 10, 14, 28, 32, 64, 68, 132 (a) 28 (b) 32 24. 3, 7, 15, 39, 63, 127, 255, 511	(c) 64
22. 5, 10, 40, 80, 320, 550, 2560 (a) 80 (b) 320 23. 10, 14, 28, 32, 64, 68, 132 (a) 28 (b) 32 24. 3, 7, 15, 39, 63, 127, 255, 511 (a) 15 (b) 39	
22. 5, 10, 40, 80, 320, 550, 2560 (a) 80 (b) 320 23. 10, 14, 28, 32, 64, 68, 132 (a) 28 (b) 32 24. 3, 7, 15, 39, 63, 127, 255, 511	(c) 64

(c) 37	(<i>d</i>) 64
(c) 122	(d) 50 9
(c) 186	(d) 209
(c) 52	(<i>d</i>) 66
(c) 32	(d) 47
(c) 96	(d) 382
(c) 123	(d) 129
<i>c</i>) 0	(d) - 45
c) 202	(d) 259
c) 48	(<i>d</i>) 188
c) 86	(d) 78
c) 84	(d) 118
c) 45	(<i>d</i>) 70
c) 64	(d) 96
c) 1536	(d) 6144
c) 165	(d) 221
c) 50	(d) 5000
c) 24	(d) 2
c) 550	(d) 2560
c) 64	(d) 132
c) 63	(d) 127
c) 98 (10 .	(d) 194

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		e	
26. 10, 26, 74, 218, 6	54, 1946, 5834		 Reported Protocol Constraints and Protocol Constraints
(a) 26	(b) 74	(c) 218	(d) 654
27. 1, 3, 10, 21, 64, 1	129, 356, 777		(0) 004
(a) 21	(b) 129	(c) 10	(d) 356
28. 3, 4, 10, 32, 136,	685, 4116	.,	
(a) 10	(b) 32	(c) 136	(d) 4116
29. 2, 6, 24, 96, 285,	568, 567		(1) 1110
(a) 6	. (b) 24	(c) 285	(d) 567
30. 445, 221, 109, 46	6, 25, 11, 4		(
(a) 25	(b) 46	(c) 109	(d) 221
31. 93, 309, 434, 498	3, 521, 533		
(a) 309	(b) 434	(c) 498	(d) 521
32. 1, 3, 12, 25, 48			
(a) 3	(b) 12	(c) 25	(d) 48
33. 1236, 2346, 3456			20. 21
(a) 1236	(b) 3456	(c) 4566	(<i>d</i>) 5686
34. 3, 2, 8, 9, 13, 22	2, 18, 32, 23, 42		
(a) 8	(b) 9	(c) 13	(d) 22
35. 2, 3, 4, 4, 6, 8,	9, 12, 16		
(a) 3	<i>(b)</i> 6	(c) 9	(d) 12
36. 1, 5, 5, 9, 7, 11,	11, 15, 12, 17		
(a) 11	(b) 12	(c) 17	(<i>d</i>) 15
37. 11, 5, 20, 12, 40	, 26, 74, 54	an in the second	
(a) 5	(b) 20	(c) 40	(<i>d</i>) 26
38. 1, 5, 9, 15, 25, 3	37, 49		
(a) 9	(b) 15	(c) 25	(d) 37
39. 5, 27, 61, 122, 2		() 100	(1) 500
(a) 27	(b) 61	(c) 122	(<i>d</i>) 509
40. 0, 2, 3, 5, 8, 10,		() 00	(1) 10
(a) 18	(b) 24	(c) 26	(<i>d</i>) 10

Directions (Questions 41 to 45): In each of the following number series, either one term is missing or is wrong, which has been given as one of the four alternatives under it. This alternative is your answer.

41. 1, 2, 5, 10, 17, 28 (a) 30	(b) 28		(c) 27	da un f	(d) 17
42. 1, 5, 11, 19, 29, 55			(c) 29	an bas Aires	(d) 19
(a) 55 43. 2, 3, 5, 8, 13, 34	(b) 41	0			(d) 34
(a) 21 44. 0, 3, 8, 15, 24, 33	(b) 2 5	n an	(c) 29	and the second	
(a) 8	(b) 15	N H Court	(c) 26	na llas s	(d) 33
45. 1, 5, 14, 30, 55, 93 (a) 97	(b) 95	an in the	(c) 93	x = 1972 - +	(d) 55

Number Series

Directions (Questions 46 to 50): In each of the following number series, two terms have been put within brackets. Mark your answer as (a) if both the bracketed terms are right; (b) if the first bracketed term is right and second is wrong; (c) if the first bracketed term is wrong and second is right; and (d) if both the bracketed terms are wrong. 46. 4, 6, 10, (12), 16, (14), 22 47. 3, 10, 29, (66), (127), 218 48. 2, 3, (6), 11, 18, (30), 38 49. (2), 5, (12), 25, 41, 61 50. 4, 7, (9), 10, 13, 15, (16), 19 ANSWERS (EXERCISE 1. (a) : The sequence is $(14)^2$, $(13)^2$, $(12)^2$, $(11)^2$, $(10)^2$. So, 101 is wrong and must be replaced by $(10)^2$ *i.e.* 100. 2. (c) : The correct sequence is 3, 3^2 , 3^3 , 4, 4^2 , 4^3 , 5, 5^2 , 5^3 . So, 10 is wrong and must be replaced by 3^2 *i.e.* 9. 3. (a) : The correct sequence is 5^2 , 7^2 , 9^2 , 11^2 , 13^2 , 15^2 . So, 36 is wrong. 4. (d) : The terms of the series are $(1^2 + 1)$, $(2^2 + 1)$, $(3^2 + 1)$, $(4^2 + 1)$, $(5^2 + 1)$, $(6^2 + 1)$, $(7^2 + 1)$, So, 64 is wrong and must be replaced by $(8^2 + 1)$ *i.e.* 65. 5. (a) : The terms of the series are $(2^3 - 3)$, $(3^3 - 3)$, $(4^3 - 3)$, $(5^3 - 3)$, $(6^3 - 3)$, $(7^3 - 3)$, $(8^3 - 3)$. So, 27 is wrong and must be replaced $(3^3 - 3)$ *i.e.* 24.

6. (c) : Each term in the series is obtained by adding 22 to the preceding term. So, 186 is wrong and must be replaced by (165 + 22) *i.e.* 187.

- 7. (b) : The correct pattern is + 6, + 8, + 10, + 12, + 14.
 - So, 45 is wrong and must be replaced by (30 + 10) i.e. 40.
- 8. (d) : 'The correct pattern is $+5, +8, +11, +14, \dots$
 - So, 47 is wrong and must be replaced by (32 + 14) i.e. 46.
- 9. (c) : The correct pattern is + 6, + 12, + 24, + 48, + 96, + 192.
- So, 96 is wrong and must be replaced by (46 + 48) i.e. 94. 10. (d) : The correct pattern is +1, -2, +3, -4, +5.
- So, 129 is wrong and must be replaced by (123 + 5) i.e. 128. 11. (c) : The correct pattern is - 20, - 25, - 30,
- So, 0 is wrong and must be replaced by (30 35), *i.e.* 5.
- 12. (c): The correct pattern is -66, -55, -44, -33, -22, -11.
- So, 202 is wrong and must be replaced by (259 55) i.e. 204. 13. (c) : The correct pattern is -192, -96, -48, -24, -12, -6.
 - So, 48 is wrong and must be replaced by (92 48) i.e. 44.
- 14. (c) : The correct pattern is -11, +9, -7, +5, -3, +1.
- So, 86 is wrong and must be replaced by (78 + 9) *i.e.* 87.
- 15. (c): The correct pattern is +2, +4, +8, +16, +32, +64

So, 84 is wrong and must be replaced by (70, 10),
$$123, + 54$$
 i.e. $+ 2, + 2^2, + 2^3, + 2^4, + 2^5, + 2^6$.

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16. (b): The correct pattern is + 1, + 4, + 9, + 16, + 25 i.e. + 1^2, + 2^2, + 3^2, + 4^2, + 5^2.
        So, 22 is wrong and must be replaced by (16 + 4) i.e. 20.
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	Objective Arithmetic
17. (d) : Each term of the series is obtained by multiplying the preced So $.96$ is wrong and must be replaced by formula the precedence of the series of t	ling form by 9
(64×2) is a 100	
18. (b): Each term of the series is obtained by dividing the present	town by t
So, 1536 is wrong and must be replaced by $(1536 \div 4)$ <i>i.e.</i> 384	term by 4.
19. (c): The terms of the series are products of two consecutive prim (3×5), (5×7), (7×11)	ł.
$(3 \times 5), (5 \times 7), (7 \times 11), \dots$	e numbers <i>i.e.</i> (2×3) ,
So, 165 is wrong and must be replaced by (11×13) <i>i.e.</i> 143.	
20. (d) : Each term of the series is the product of the preceding two to	
So 5000 is wrong and must be and the product of the preceding two to	rms.
So, 5000 is wrong and must be replaced by (50×500) <i>i.e.</i> 250	100.
21. (c) : The correct pattern is $\div 12$, $\div 10$, $\div 8$, $\div 6$,	
So, 24 is wrong and must be replaced by $(48 \div 6)$ <i>i.e.</i> 8.	
22. (c) : The correct pattern is $\times 2, \times 4, \times 2, \times 4, \dots$	
So, 550 is wrong and must be replaced by (320×2) <i>i.e.</i> 640.	
23. (d) : The correct pattern is $+4, \times 2, +4, \times 2, \dots$	
So, 132 is wrong and must be replaced by (68×2) <i>i.e.</i> 136.	
24. (b) : The correct pattern is $\times 2 + 1$.	
So, 39 is wrong and must be replaced by $(15 \times 2 + 1)$ <i>i.e.</i> 31.	
25. (b) : The correct pattern is $\times 2 - 2$.	
So, 48 is wrong and must be replaced by $(26 \times 2 - 2)$ <i>i.e.</i> 50.	
26. (d) : The correct pattern is $\times 3 - 4$.	and the second
So, 654 is wrong and must be replaced by $(218 \times 3 - 4)$ i.e. 650	0.
27. (d) : The correct pattern is $\times 2 + 1$, $\times 3 + 1$, $\times 2 + 1$, $\times 3 + 1$,	- OLC 10
So, 356 is wrong and must be replaced by $(129 \times 3 + 1)$ <i>i.e.</i> 388	8.
28. (b) : The correct pattern is $\times 1 + 1$, $\times 2 + 2$, $\times 3 + 3$, $\times 4 + 4$,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
So, 32 is wrong and must be replaced by $(10 \times 3 + 3)$ <i>i.e.</i> 33.	
29. (b) : The correct pattern is $\times 6 - 6$, $\times 5 - 5$, $\times 4 - 4$,	ા પ્રધાર છે. 🕈 ે જેવા 🛤
So, 24 is wrong and must be replaced by $(6 \times 5 - 5)$ <i>i.e.</i> 25.	an an tha an an air
30 , (b) : 3 is subtracted from each number and the result divided by 2 to o	btain the next number
of the series.	
So, 46 is wrong and must be replaced by $\left(\frac{109-3}{2}\right)$ <i>i.e.</i> 53.	
So, 46 is wrong and must be replaced by $\begin{pmatrix} 2 \end{pmatrix}$ <i>i.e.</i> 55.	
31. (d) : The correct pattern is $+6^3$, $+5^3$, $+4^3$, $+3^3$,	A STATISTICS AND
So 521 is wrong and must be replaced by $(498 + 3^{\circ})$ i.e. 525.	
32. (c): The terms of the series are $(1^2 - 0^2)$, $(2^2 - 1^2)$, $(4^2 - 2^2)$, $(6^2 - 3^2)$	²) and $(8^2 - 4^2)$.
So, 25 is wrong and must be replaced by $(6^2 - 3^2)$ <i>i.e.</i> 27.	
33. (d): The correct pattern in the series is + 1110.	A STREET OF LOSS AND
So, 5686 is wrong and must be replaced by $(4566 + 1110)$ i.e.	5676.
34. (b): The given sequence is a combination of two series:	
I. 3, 8, 13, 18, 23 and II. 2, 9, 22, 3	
The pattern in I is $+5$, and the pattern in II is $+10$.	
So, in II. 9 is wrong and must be replaced by $(2 + 10) \mu e$. 12.	
(c): The given sequence is a combination of three series:	a marker and the set
I. 1st, 4th, 7th terms <i>i.e.</i> 2, 4, 9,	
II, 2nd, 5th, 8th terms <i>i.e.</i> 3, 6, 12,	and the second second
III. 3rd, 6th, 9th terms <i>i.e.</i> 4, 8, 16, In each one of I, II and III, each term is twice the preceding to	rm. serve set the fell of
So, 9 is wrong and must be replaced by (4×2) <i>i.e.</i> 8.	the state of the s
so, o is wrong and must be replaced by (4 × 2) her of	

Number Series

36. (b) : The given sequence is a combination of two series :	
I. 1, 5, 7, 11, 12 and II. 5, 9, 11, 15, 17	
The pattern in both I and II is $+4$, $+2$, $+4$, $+2$.	
So, 12 is wrong and must be replaced by $(11 + 2)$ i.e. 13.	
37. (c) : The given sequence is a combination of two series :	
Tr = 10.06.54	
The correct pattern in I is $+9$, $+18$, $+36$,	
So, 40 is wrong and must be replaced by $(20 + 18)$ <i>i.e.</i> 38.	
38. (b) : The terms of the given series are 1^2 , $(2^2 + 1)$, 3^2 , $(4^2 + 1)$, 5^2 , $(6^2 + 1)$, 7^2 .	
So, 15 is wrong and must be replaced by $(4^2 + 1)$ <i>i.e.</i> 17.	
39. (a) : We have :	
I: 5 27 61 122 213 340 50	9
	2
III : 12 27 30 36 42	
IV: 15 3 6 6	
Clearly, the given series becomes a triangular-pattern series if each term in IV is	6.
Then, in III, 27 must be replaced by $(30 - 6)$ <i>i.e.</i> 24 & 12 by $(24 - 6)$ <i>i.e.</i> 18.	
Again, in II, 34 must be replaced by (61 – 24) i.e. 37 and 22 by (37 – 18) i.e. 19.	
Thus in the given series, 27 is wrong and must be replaced by $(5 + 19)$ <i>i.e.</i> 24.	
40. (a) : The given sequence is a combination of two series :	1
I. 0, 3, 8, 15, 24, 35 and II. 2, 5, 10, 18, 26	
The pattern in both I and II is $+3$, $+5$, $+7$, $+9$,	
So, in II, 18 is wrong and must be replaced by $(10 + 7)$ i.e. 17.	
41. (b) : The correct sequence is $+1$, $+3$, $+5$, $+7$, $+9$.	
So, 28 is wrong and must be replaced by $(17 + 9)$ <i>i.e.</i> 26.	
42. (b) : The correct sequence is $+4, +6, +8, +10, \dots$	
So, next term after $29 = 29 + 12 = 41$.	
The term after 41 will then be $(41 + 14)$ i.e. 55.	
: 41 is missing.	
43. (a) : Clearly, each term of the series is the sum of the preceding two terms.	
Now, $8 + 13 = 21$ and $13 + 21 = 34$.	
So, the term 21 is missing.	
44. (d): The correct pattern is $+3, +5, +7, +9, +11$.	
So, 33 is wrong and must be replaced by (24, 11) is an	
45. (c): The correct pattern is $+4, +9, +16, +25, +36$ is $+2^2, +2^2, +2^2$	
$50, 50$ is wrong and must be replaced by (55 ± 36) ; and	
46. (b) : The correct pattern is $+2, +4, +2, +4,$	
Clearly, the term 12 is correct.	Eve
But, 14 is wrong and must be replaced by $(16 + 2)$ <i>i.e.</i> 18.	Lve
1 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	
	-
1 + 3 + 5 + 7 + 0	Odd
But, 30 is wrong and must be replaced by $(18 + 9)$ <i>i.e.</i> 27. 49. (d): The correct pattern is 1.4 and 1.2 and 1.4 an	
- Tour 19, 2 is wrong and must be mentered to the	Com
Also, 12 is wrong and must be replaced by $(5 - 1)$ <i>i.e.</i> 4. 50. (a) : The correct pattern is $+3, +2, +1, +3, +2, +1, +3$. Clearly, both the terms 9 and 16	
	Cons
Clearly, both the terms 9 and 16 are correct.	

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QUANTITATIVE APTITUDE TEST

(Basic Mathematics/Arithmetic's) Analytical and Mental Ability

1 – Understanding Numbers

Numbers are divided in following types:

Natural Number: Numbers which we use for counting the things are known as natural numbers. It is denoted by 'N'.

 $N = \{1, 2, 3, 4, \dots \}.$

Whole Number: When we include zero in natural number it is known as whole number. It is denoted by 'W'.

 $W = \{0, 1, 2, 3, 4, \dots\}$

Prime Number: Any number which cannot be divided without remainder by any other number and can be divided by itself and by unity is known as prime number.

PRIME NUMBERS

1	and a second						
139	233	337	439	557	653	769	883
149	239	347	443	563	659	773	887
151	241	349	439	569	661	787	907
157	251	353	457	571	673	797	911
163	257	359	461	577	677	809	919
167	263	367	463	587	683	811	929
173	269	373	467	593	691	821	· 937
179	271	379	479	599	701	823	941
181	277	383	487	601	709	827	947
191	281	389	491	607	719	829	953
193	283	397	499	613	727	839	. 967
197	293	401	503	617	733	853	· 971
199	307	409	- 509	619	739	857	. 977
211	311	419	521	631	743	859	983
0000000000	313	421	523	641	751	863	991
	317	431	541	643	757	877	997
	2002/07/2012/07/07	433	547	647	761	881	1009
	149 151 157 163 167 173 179 181 191 193 197	149239151241157251163257167263173269179271181277191281193283197293199307211311223313227317	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

Even Number: The number which is divisible by '2' is known as even number.

e.g., 2, 4, 8, 12, 24, 28

It is also of the form $2n \{ where n = whole number \}$.

Odd Number: The number which is not divisible by '2' is known as odd number.

e.g., 3, 9, 11, 19, 17.....

It is also of the form 2n + 2 or 2n - 1 (where n = whole number).

Composite Number: The numbers which are not prime are called composite number.

e.g., 4, 6, 8, 9, 12, 14, 15, 16 are composite numbers.

Consecutive Number: A series of numbers in which each is greater by I than that which precedes it, are called consecutive numbers.

Integers: The set which consists the whole number and negative number is known as Integer. I is denoted by 'I'.

e.g., $I = \{-4, -3, -2, -1, 0, 1, 2, 3, 4\}$

Opposite Numbers: If the addition of two numbers is zero, the numbers are said to be opposite. e.g., 8 + (-8) = 0

Where 8 and -8 are opposite numbers.

Rational Number: When the numbers are written in fraction they are known as Rational Number. It is denoted by Q.

e.g., $\frac{1}{2}, \frac{3}{4}, \frac{5}{6}$ are rational numbers.

or the numbers which can be named in the form a/b {Where a and b are integers and $b \neq 0$ }

e.g.,
$$-7, \frac{8}{4}$$
 73%, 3.38 etc.

Properties of Natural Numbers Addition

1. Commutative

a+b=b+a

2. Associative

(a + b) + c = a + (b + c)

3. Identity number

 $\mathbf{a} + \mathbf{0} = \mathbf{0} + \mathbf{a} = \mathbf{a}$

(only zero is called identity element for addition)

4. Additive Inverse

for each a there is only one number i.e. - a

a + (-a) = -a + a = 0

Multiplication

5. Commutative

 $a \times b = b \times a$

6. Associative

 $(a \times b) \times c = a \times (b \times c)$

7. Identity number

There is one and only one '1'

i.e. $a \times 1 = 1 \times a = a$

8. Multiplicative Inverse for each Non-zero a, there is one and only one number 1/a i.e.

$$a \times \frac{1}{a} = \frac{1}{a} \times a = 1$$

9. Distributive, Multiplication can be distributed over addition.

 $a + (b \times c) = (a \times b) + (a \times c)$

10. Closure. The system of rational numbers is closed under *addition, subtraction multiplication and division (except by 0)

a + b, a - b, $a \times b$, $a \div b$ ($b \neq 0$) are all rational numbers.

Procedure for addition, subtraction multiplication and division of Rational numbers.

	р	r
Addit	ion: Given, _	and
	q	S
i.e.,	$\frac{p}{q} + \frac{r}{s}$	

To add make the denominator same by taking L.C.M. and then add the L.C.M. numerator forming the denominator.

e.g., $\frac{1}{6} + \frac{4}{5}$ = $\frac{1}{6} \times \frac{5}{5} + \frac{4}{5} \times \frac{6}{6}$ = $\frac{5}{30} + \frac{24}{30} = \frac{29}{30}$

Subtraction: Given two rational numbers p/q and r/s which are to be subtracted

e.g., $\frac{p}{q} - \frac{r}{s}$

1

To substract make the denominator same by talking L.C.M.

e.g., $\frac{6}{4} - \frac{2}{3}$ $\frac{6}{4} \times \frac{3}{3} - \frac{2}{3} \times \frac{2}{4}$ $\frac{18}{12} - \frac{8}{12} = \frac{10}{12}$	
Multiplication. $\frac{p}{q}$ as	$\operatorname{nd} \frac{r}{s}$
i.e., $\frac{p}{q} \times \frac{r}{s} = \frac{pr}{qs}$	
e.g., $\frac{4}{3} \times \frac{6}{2} = \frac{24}{6}$	or 4
Division. $\frac{p}{q}$ and $\frac{r}{s}$	1051. D
$\frac{\mathbf{p}}{\mathbf{q}} \div \frac{\mathbf{r}}{\mathbf{s}}$	energial and space a
<u>p</u>	and the second sec
Or q	
r	(.1 sH
r s	

$$\frac{p}{q} \times \frac{s}{r} = \frac{ps}{qr}$$

e.g., $\frac{3}{2} \div \frac{1}{2}, \frac{3}{2} \times \frac{2}{1} = \frac{6}{2} = 3$

Irrational Number:

Such as $\sqrt{3}$, $\sqrt[3]{5}$ which can not be written in the form of $\frac{p}{q}$ are known

Irrational numbers.

 $\sqrt{3} = 1.732, \sqrt[3]{5} = 1,709975947....$

But Recurring decimals like $\left(\frac{8}{3} = 2.666 \text{ or } 2.6\right)$

 $\frac{21}{22} = .9545454.... = .9\overline{54}$

can be written in p/q form so they are rational numbers.

(Remaining decimal in which a digit or a set of digits is repeated continually). **Real Numbers:** When we combine both rational and irrationals number than it is known as Real number.

Imaginary Numbers: When there exist no solution for number in the set of real number.

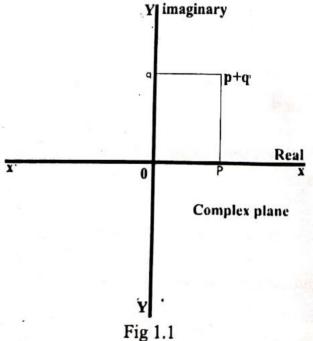
e.g.,
$$\sqrt{-64} = 8i$$

is known as imaginary number.

$$i^2 = -1$$

Complex Number: It consist of two parts-one is imaginary and other is real i.e., $p + q_i$.

It is represented on the graph by x and y-axis where x-saxis for real numbers and y-axis is for imaginary numbers.



Dat	
Rules	for Solving Problems in Arithmetic
i.	$(a + b) \times (a - b) = a^2 - b^2$
ii.	$\frac{a^2 - b^2}{a + b} = a - b$
iii.	$\frac{a^2 - b^2}{a - b} = a + b$
iv.	$(a+b)^2 = a^2 + 2ab + b^2$
v.	$(a - b)^2 = a^2 - 2ab + b^2$
vi.	$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
vii.	$(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
viii.	$\frac{a^3+b^3}{a^2-ab+b^2}=a+b$
ix.	$\frac{a^3-b^3}{a^2+ab+b^2}=a-b$
x.	$\frac{a^3 + b^3 + c^3 - 3abc}{a^2 + b^2 + c^2 - ab - ba - ca} = (a + b + c)$
xi.	$a^x \times a^y = a^{x+y}$
xii.	$a^x \div a^y = a^{x-y}$
xiii.	$(a^{x})^{y} = a^{x \times y}$
xiv.	$a^{x} = b^{x} \Longrightarrow a = b$
XV.	$a^{x} = a^{y} \Longrightarrow x = y$

xvi. $a^{x} = 1$, then x is 0 for all values of a (except 0).

ASCENDING AND DESCENDING ORDERS IN RATIONAL NUMBERS Adding Order

A 0	$\frac{2}{2}, \frac{3}{2}, \frac{6}{2}$ and $\frac{4}{2}$
e.g.,	$\frac{1}{3}, \frac{1}{4}, \frac{1}{2}, \frac{1}{2}$

First make the denominator same by L.C.M. method, then the number having bigger numerator will be greater.

8	9	36	24
12	12	12	12

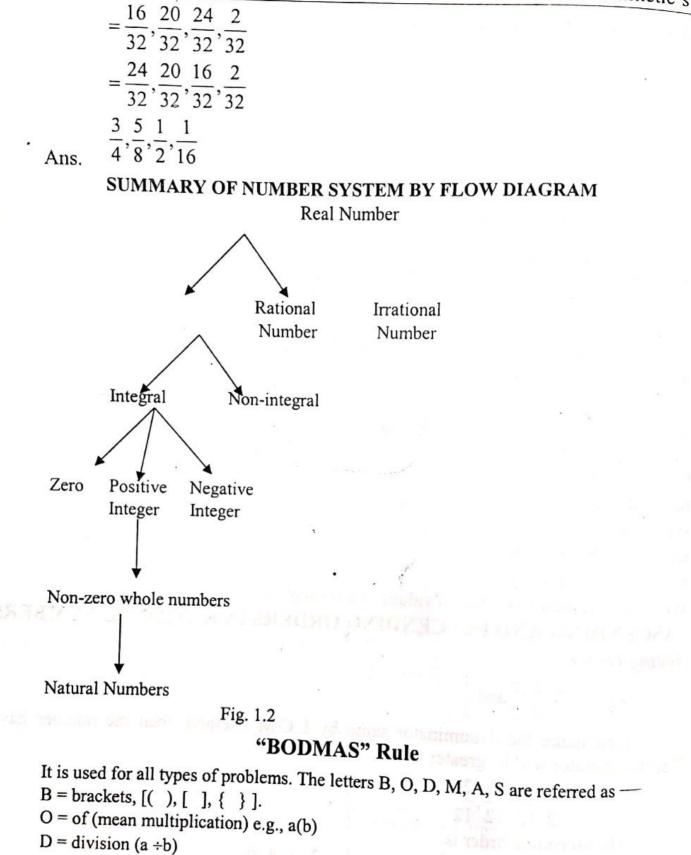
The ascending order is.

8 9 24 36			$\frac{2}{2}$ $\frac{3}{4}$ $\frac{4}{6}$
12,12,12,12	. 55	Ans.	$\frac{1}{3}, \frac{1}{4}, \frac{1}{2}, \frac{1}{2}$

Descending Order

e.g., $\frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{1}{6}$

Basic Mathematics/Arithmetic's



 $M = multiplication (a \times b)$

|-3|=3

A = addition (a + b)

S = subtraction (a - b)

Absolute Value: The absolute value of a number is its value obtained without paying any regard to its sign. The absolute of -3 is 3. Two vertical marks (11) indicate absolute value.

Basic Mathematics/Arithmetic's

MEASUREMENTS

There are three system of measurement.

- F.P.S. Foot, Pond, Second.
- 1. C.G.S. - Centimeter. Gram. Second. 2.
- M.K.S. Metre, Kilogram, Second. 3.

Now-a-days generally we use the M.K.S. system of measurement.

TABLE (Metric System)

		(
10 milli (of a unit)	=	1 centi (of a unit)
10 centi (of a unit)	=	1 deci (of a unit)
10 deci (of a unit)	=	1 unit
10 unit	=	1 deca unit
10 deca units	=	1 hecta unit
10 hecta units	=	1 kilo unit
Units	=	gram, meters or liters)
One quintal	=	100 kilograms
One tonne	=	10 quintals = 100 kilogram
One tonne	=	2000 pond.
d Measure		

Land

3

100 centi ares	=	1 ARE = 100 sq. meters.
100 ares	=	1 hectare=10000 sq. metres.
100 hectares	=	1 sq. kilometer.
		1 1' 1 in a factor

Common Factor or Common Measure: A number which is a factor of two or more numbers is said to be a common factor or common measure, of the numbers, excluding unity which is common measure of all the factors. It is of two types.

Greatest Common Measure or Highest Common Factor: The G.C.M. of two or more 1. factors is the greatest fraction which is contained in each of them an exact number of times.

e.g., To find out the H.C.F. of 10 and 14.

Factors of 10 are - 1, 2, 5, 10.

Factors of 14 are - 1, 2, 7, 14.

The common factors are 1, 2; but the highest of these is 2, hence 2 is the H.C.F.

Lowest Common Factor or Least Common Multiple: The L.C.M. of two or more 2. fraction is the least fraction or integer containing each of them an exact number of time.

e.g., To find out the L.C.M. of 56, 72, 84, 96.

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$$56 = 2^{3} \times 7$$

$$72 = 2^{3} \times 3^{3}$$

$$84 = 2^{3} \times 3 \times 7$$

$$96 = 2^{2} \times 3$$

:. L.C.M. = $2^5 \times 3^2 \times 7 = 2016$.

e.g., Let 8 and 12 be the two numbers.

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ľ

H.C.F. = 4 and L.C.M. = 24 $24 \times 4 = 8 \times 12$ 96 = 96

Thus, the rule is proved.

2. $(L.C.M.) = 1 \div (G.C.M.)$

Rules for Division

Or

In Exact Division. Dividend ÷ Divisor = Quotient

Quotient × Divisor = Dividend.

In Inexact Division.Quotient × Divisor+Remainder=Dividend.

SOLVED EXAMPLES

Custian

Example 1:	Reduce to its low	vest term the fo	ollowing fraction.
	625×117		
	975×10		
	JA10 .	$=\frac{625\times117}{975\times10}=$	
Example 2:	Arrange in ascer	nding order of i	magnitude the fractions.
	$\frac{13}{27}, \frac{17}{35}, \frac{13}{36}, \frac{12}{25}$	π.	
Solution:	The L.C.M. of	and an arrest of the	o is 18900
÷	$\frac{13}{27} = \frac{13 \times 700}{27 \times 700} =$		
	$17 _ 17 \times 540$	9180	
	$\overline{35}^{-}\overline{35\times540}$		and the second second
	$\frac{13}{13} = \frac{13 \times 525}{13}$	_ 6825	
	$\overline{36} = \overline{36 \times 525}$	18900	
	$12 - \frac{12 \times 756}{2}$	_ 9072	
	$\overline{25} = \overline{25 \times 756}$		h.nuð .
By con	nparing the nume	erators we can	write as

 $\frac{13}{36}, \frac{12}{25}, \frac{13}{27}, \frac{17}{35}$ in the ascending order

OBJECTIVE TYPE QUESTIONS

Sha Zai	kih is : n?	four times	as old	as Zain.	If the	e sun	ı of t	heir ages	is 60 g	years, how old
(a)	11		(b)	12		(c)	15		(d)	48
Wh	at is the	e next numl	per in t	his series	: 165	. 160.		165 175	(u) 9	
(a)	185		(b)	170		(c)	180		(d)	None of these
If 1	/8 of 9	number is 6	, what	is the nu	mber'	?			(u)	rione of
(a)	24		(b)	128	0.0	(c)	2		(d)	None of these

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D	asic Mathematics/Arith	nmeti	c's				
-	Which is the odd num	ber o	ut of				319
4.	3, 4, 6, 8						
	(a) 3	(b)	4	(c)	6		
	Which is the greatest?			(c)	6	(d)	8
5.	2 3 4 11 7						
	5'5'5'15'15						
	5 5 5 15 15						
	2		3		4		11
	(a) $\frac{1}{5}$	(b)	$\frac{3}{5}$	(c)	$\frac{4}{5}$	(d)	$\frac{11}{15}$
	7		5		5		15
	$(a) \frac{7}{2}$						
	(e) 15						
	[From questions 6 to 10	let B	means square	the firs	t no and add the	secon	d]
6.	The value of 10. β . 9 is		square	the ms		. secon	u.j
0.	(a) 9	(b)	10	(c)	109	(d)	1009
7	The value of 9. β . 1. is	(0)	10	(0)	109	(u)	1007
7.		(\mathbf{h})	81	(a)	19	(d)	82
0		(b)	01	(c)	19	(d)	02
8.	The value of 7. β . 2 is	(1-)	71	(a)	40	(d)	50
•	(a) 51	(b)	71	(c)	49	(d)	50
9.	The value of 15. β . 15 is		240	(a)	20	(d)	0
	(a) 140	(b)	240	(c)	30	(u)	U III
10.	The Value of 0. β .0 is	4.5		(a)	0	(d)	All of the above
1	(a) 1	(b)	2	(c)	0	(u)	An of the above
11.	2 is an	4.5	N. (har (a)	Prime number	(d)	All of the above
10	(a) Whole number	(b)	Natural num	iber (c)	Time number	(u)	
12.	0 is an		TTTL - La mumb	a.			
	(a) Natural number	(b)	Whole numb		- M		
10	(c) Prime number	(d)	All of the ab	000			
13.	2, 4, 6, 8 are	2.0	T	-0	and here the		
	(a) Natural numbers	(b)	Even number	15			
14	(c) Whole numbers	(d)	All of the ab	OVE			
14.	Which of the following i	s an o	dd number?				
	7, 8, 16, 12		Las South an	(a)	16	(d)	12
15.	(a) 7	(-)	8	(c)	10	, ,	
13,	Which of the following is	s a pri	me number		a de stra de		par se anno 1951 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1971 - 1
	6, 9, 7, 51		2 3 2	$\langle \cdot \rangle$	7	(d)	51
16.	(a) 6	(b)	9	(c)	1000		
	The 3 in the number 23,	456 re	presents		Thousands	(d)	Ten thousands
17.	(a) Tens	(h)	Hundreds	(c)	Thousands		
	The 6 in the number 0.46	68 rep	resents	()	Thousandths		
	(a) Tenths	(b)	Hundredths	(c)	Thousand		
	(d) Ten thousandths					P	

320				В	asic Mather	natics/A	rithmetic's
	In a class, 2/5 of the stu	dante	are boys if	there a	are 50 boys, h	low many	girls are in the
18.		aents	are boys, n	there			
	class?	(b)	75	(c)	70	(d)	30
10	(a) 20 What is the lowest comm	(0) non m		•	5?		1.1
19.						(d)	150
•	(a) 120 The H.C.F. of two numb	(0)	12 and their	r sum i	s 96. All the p	pairs of s	uch numbers is
20.		(h)	18, 60 : 20,	90			
			N ftho	60			
	(c) 30, 80 : 80, 70 In finding the G.C.M. o	(u) f two	numbers, th	e last d	livisor is 41 a	nd the q	uotients are 2, 4,
21.	2 the numbers are:						
		(b)	820, 369	(c)	800, 500		None of these
22.	(a) 700, 400 Two numbers 4242 and	2903	when divid	ed by a	a certain nun	nber of 3	digits leave the
22.	same remainder. The nu	imber	and the ren	nainder	r is		
	(a) 103 19	(b)	100, 20	(C)	150, 40	(d)	125, 35
23.	The least square numbe	r whi	ch is divisible	e by 2,	3, 4, 5 and 6	is	
20.	(a) 800	(h)	900	(C)	1000	(u)	1200
24.	The L.C.M. of two nun	ibers	is 2310 and	their H	1.C.F. is 30, i	f one of	them is 210, the
2	other is						
	(a) 300	(b)	330	(c)	350	(d)	400
25.	The least number of fou	r digi	ts which is e	xactly o	divisible by 2.	, 3, 4, 5, 6	and 7 is
	(a) 1200	(b)	1250	(c)		(d)	
26.	A heap of stones can be	e mad	e up into gro	oups of	21 but when	n made u	p into groups of
	16, 20, 25 and 45 there		hree stones	left in	each case. H	low man	y stones at least
	there can be in the heap		7000		7500	(1)	7000
	(a) 7203				7500	(d)	7000
27.	Find the least number	which	, when divid	ed by .	35 leaves ren	ainder 2	5, when divided
	by 45 leaves remainder						
20	(a) 2000 Find the least number of	(b) which	2515	(c)		(d)	3455
28.	Find the least number we have been been been been been been been be	dod by	viten aivia	ea by a	8, 12 and 16	leaves 3	as remainder is
	(a) 140		147				1.601
29.		• •			150	(d)	160'
27.	What is the least multip (a) 147	(b)	170				
30.				(c)	180	(d)	200
50.	The least square numbe (a) 44100					•	Ethest
31.	What is the L.C.M. of 1	(b)	50000°	(c)	55125	· (d)	None of these
51.	(a) 60						1.1.1.6
·	(e) None of these	(b)	90	(c)	810	(d)	180
32.	Which is the prime num	hou 4	E (00	245323			
	(a) 4			in the	15 (0)		(6)
	(e) None of the above	(b)	8	(c)	5	(d)	6
.33.	If n is a natural number		, in eau	Gottan			
	(a) Always a rational n	, then	v n is				
		umber	r ,	(b)	Always a na	atural nur	nber .
	(c) Always an irrationa	i num	ber			•	

-	c Mathematics/Arithm	etic's	5					321
Basi	(1) Sometimes a natura	i num	oer and somet	imes a	irrationa	Inumber		521
	(d) The Highest common fa	ctor o	f 28, 56, 40 is			mannoer		
34.	(a) 4	(b)	10	(c)	8	(d)	14	
	The H.C.F. of the expres	ssions	$x^4 + 3x^2 - 4a$	nd x ⁴	$-4x^{2}+3$ is	(0)	17	
35.	(a) $x + 1$	(b)	$\mathbf{x} - 1$	(c)	$(x^2 - 1)$	(d)	$x^{2} - 3$	
	The L.C.M. of 15, 24, 30), 40 is	6	. /	· · ·	(-)	5 1. 1	
36.	(a) 360	(b)	240	(c)	120	(d)	480	
17	L.C.M. of 12, 36, 6 and	9 is	•	• • •				
37.	(a) 108		144	(c)	72	(d)	36	
38.	The sum of two number	s is tv	vice their diff	erence	e. If one of		er is 10, the o	other
500	number is				٠			
	-31					21		
	(a) 30 or	(b)	30					
	3		3	2				
	31		31					
	(c)	(d)	30 or	÷.				
•	3		. 3		- 185 V			
39.	$2-2-2 \times 2$ is equal to		<i>.</i> .	(a)	٥	(d)	+4	
	(a) -1	(b)	- 5	(c)	0	(u)		
10	(e) None of these $(12, 2)$			3 .				
40.	26 - [5 - (12 - 3)] = ?	(h)	8	(c)	18	(d)	24	
	(a) 16(e) None of these	(b)	0	(-)				
					1			
41.	$2\frac{4}{9} \times 20.7 = ?$				1.000		" scheete	
	,	5		· (~) ·	60.6	(d)	70.6	
	(a) 40.6	(b)	50.6	(c)	60.6	(u)	/0.0	
12	$777 - \frac{(167 - 48)}{777} = ?$	3.5	104 A 13					
42.	7	· · ·	A a di		7.	(0)		
	(a) 658	(b)	668 0	(c)	794	(d)	760	
	(e) None of these		$(2^{\circ}) = 2^{\circ} \gamma^{\circ} = C^{\circ}$	1 22		111		
1.0	encounter when the set of	51 T.	3. al. (*		107 64			
43	$\frac{9}{10} \times \frac{2}{8} + \frac{1}{6} = ?$		(1.5) also 15	and and		and the second s		
			and the	weild	19		7.	
	(a) $\frac{47}{122}$	(h)	$\frac{3}{8}$	(c)	$1\frac{19}{60}$	(d)	$4\frac{1}{10}$	
	120	(0)	.8 excert	11.53	00			
	(e) None of these		g anim makes	10, 14	tion and the second	the ball of the		
44	7 2 11						And all all all all all all all all all al	
	$6 \times 2 + 8 = ?$		1	1031	1310 27 - MA	the second se	Denseration (
1					at all the tra-	(d)	1	
	(a) 10	0.000	iorraly odd radio	(c)		(u)	6	
1.	(-) IU	(b)	0.5					
	A CALER A			•				

						P	Basic M	ather	natics	Arithn	netia
	(e) None o	of these	1					athor		1 in the	incuic's
45.	254 + 127 × 0						*				
	(a) 4	,	(b)	1		(c)	279.4		(d)	40	
	(e) None of	of these	(-)				217.4		(u)	40	
46.	$8 \div 8 \times 8 \times 8$							14			
							510				
	(2) 56			10 1620		(c)	512	2			
	(a) 56	0.1	(b)	0		()	64		(d)	504	
•	(e) None of	of these		1.							
47.	$\frac{7}{2} = \frac{2}{2}$			1.1							
• • •	? 26	A									
	14	18 J 3 J		10							
	(a) $\frac{11}{26}$		(b)	$1\frac{12}{}$		-					
		C		. 14		(c)	91		(d)	182	
48.		of these	0.50								
40.	0.96 ÷ 1.6 + (a) 6.6	0 = ?									
		of these	(b)	0.01	. •	(c)	0.06		(d)	0.6	
	40.3×0.7	of these	2			19. al			(4)	0.0	
49.		=?					·				
	7			÷,			*				× ,*
· .	(a) 4.03		(b)	4.3		(c)	20 21	l,	20 		`*
50.	(e) None	of these					28.21		, (d)	30.1	
50.	what is th	e highest n	umha		•			*			*
/	divided by	onu	umber	of fou	ır digit	whi	ch will	1000			
·	divided by a	any number	• 5, 9, 1	of fou 12, 15 o	ır digit r 18?	whi	ch will	leave	a rem	ainder	of 1 wh
, · · ·	What is th divided by (a) 9901	any number	(b)	of fou 12, 15 o 8901	ır digit r 18?	whi (c)		leave	10,000		
· · ·		any number	(b)	8901	· · · · ·	(c)	ch will 7962	leave	a rem . (d)		
1.	(b) 2. (b)	3. (b)	(0)	8901 Al	NSWE	(c) RS	7962	leave	10,000		
11.	(b) 2. (b) (d) 12. (b)	3. (b) 13. (d)	(0)	8901 Al	NSWE	(c) RS	7962 c) 7.	(d)	(d)	4424	4
11. 21.	(b) 2. (b) (d) 12. (b) (b) 22. (a)	3. (b) 13. (d) 23. (b)	(b) 4 (a 14.	AN A) 5. (a) 15.	(a) (c)	(c) RS 6. (c) 16. (c)	7962 c) 7. (c) 17.	(d) (b)	(d) 8. (a)	4424 9.	4 (b) 10. (c
11. 21. 31.	(b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c)	3. (b) 13. (d) 23. (b) 33. (d)	(b) 4 (a 14. 24. 34.	AI a) 5. (a) 15. (b) 25. (a) 35.	(a) (c) (c) (c)	(c) RS 6. (d) 16. (d) 26. (d)	7962 c) 7. (c) 17. (a) 27.	(d) (b) (d)	(d) 8. (a) 18. (b)	9. 9. 9.	4 (b) 10. (c (b) 20. (
11. 21.	(b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c)	3. (b) 13. (d) 23. (b)	(b) 4 (a 14. 24. 34.	AI a) 5. (a) 15. (b) 25. (a) 35.	(a) (c) (c) (c) (c)	(c) RS 6. (c) 16. (c) 26. (c) 36. (c)	7962 (c) 7. (c) 17. (a) 27. (b) 37.	(d) (b) (d) (d)	(d) 8. (a) 18. (b) 28. (b) 38. (b)	9. 9. 19. 29.	4 (b) 10. (c) (b) 20. ((a) 30. (
11. 21. 31.	(b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c)	3. (b) 13. (d) 23. (b) 33. (d)	(b) 4 (a 14. 24. 34. 44.	AN a) 5. (a) 15. (b) 25. (a) 35. (b) 45.	(a) (c) (c) (c) (c) (c)	(c) RS 6. (d) 16. (26. (36. (46. (7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47.	(d) (b) (d) (d)	(d) 8. (a) 18. (b) 28. (b) 38. (b)	9.) 19.) 29.) 39.	4 (b) 10. (c) (b) 20. ((a) 30. (i (e) 40. (i
11. 21. 31.	(b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c)	3. (b) 13. (d) 23. (b) 33. (d)	(b) 4 (a 14. 24. 34. 44.	AN a) 5. (a) 15. (b) 25. (a) 35. (b) 45.	(a) (c) (c) (c) (c) (c)	(c) RS 6. (d) 16. (26. (36. (46. (7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47.	(d) (b) (d) (d)	(d) 8. (a) 18. (b) 28. (b) 38. (b)	9.) 19.) 29.) 39.	4 (b) 10. (c) (b) 20. ((a) 30. (
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11. 21. 31. 41.	(b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d)	3. (b) 13. (d) 23. (b) 33. (d) 43. (a)	(b) 4 (a 14. 24. 34. 44. 2		(a) (c) (c) (c) (c) (c) (c)	(c) RS 6. (d) 16. (26. (36. (46. (fica	7962 (c) 7. (c) 17. (a) 27. (b) 37. (a) 47. (a) 47.	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. ((c) 40. ((a) 50. (
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ✓ If a unit be chion of the unit	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into	(b) 4 (a 14. 24. 34. 44. 2 (any 1	AN a) 5. (a) 15. (b) 25. (a) 35. (b) 45. - Si FR. number	(a) (c) (c) (c) (c) (c) (c) (c) (c)	(c) RS 6. (d) 16. (26. (36. (46. (fica	7962 (c) 7. (c) 17. (a) 27. (b) 37. (a) 47. (a) 47.	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. ((c) 40. ((a) 50. (
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ★ If a unit be ction of the unit Numerator	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into	(b) 4 (a 14. 24. 34. 44. 2 (any p	AN a) 5. (a) 15. (b) 25. (a) 35. (b) 45. - Sin FR. number	(a) (c) (c) (c) (c) (c) (c) mplif ACTIC	(c) RS 6. (d) 16. (26. (36. (46. (fica	7962 (c) 7. (c) 17. (a) 27. (b) 37. (a) 47. (a) 47.	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. ((c) 40. ((a) 50. (
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ← If a unit be entition of the unit Numerator Denominant	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into = upper part	(b) 4 (a 14. 24. 34. 44. 2 0 any 1 0 f the	AI a) 5. (a) 15. (b) 25. (a) 35. (b) 45. - Si FR number fraction	(a) (c) (c) (c) (c) (c) mplif ACTIC	(c) RS 6. (c) 16. (c) 26. (c) 36. (c) 46. (c) fica ons al pa	7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47. tion Surts, one	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. (i (e) 40. (i (a) 50. (i
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ← If a unit be entition of the unit Numerator Denominant	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into = upper part	(b) 4 (a 14. 24. 34. 44. 2 0 any 1 0 f the	AI a) 5. (a) 15. (b) 25. (a) 35. (b) 45. - Si FR number fraction	(a) (c) (c) (c) (c) (c) mplif ACTIC	(c) RS 6. (c) 16. (c) 26. (c) 36. (c) 46. (c) fica ons al pa	7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47. tion Surts, one	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. (i (e) 40. (i (a) 50. (i
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ← If a unit be entition of the unit Numerator Denominant	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into = upper part	(b) 4 (a 14. 24. 34. 44. 2 0 any 1 0 f the	AI a) 5. (a) 15. (b) 25. (a) 35. (b) 45. - Si FR number fraction	(a) (c) (c) (c) (c) (c) mplif ACTIC	(c) RS 6. (c) 16. (c) 26. (c) 36. (c) 46. (c) fica ons al pa	7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47. tion Surts, one	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. (i (e) 40. (i (a) 50. (i
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ← If a unit be entition of the unit Numerator Denominant	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into = upper part	(b) 4 (a 14. 24. 34. 44. 2 0 any 1 0 f the	AI a) 5. (a) 15. (b) 25. (a) 35. (b) 45. - Si FR number fraction fraction	(a) (c) (c) (c) (c) (c) mplif ACTIC	(c) RS 6. (c) 16. (c) 26. (c) 36. (c) 46. (c) fica ons al pa	7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47. tion Surts, one	(d) (b) (d) (d) (c)	(d) 8. (a) 18. (b) 28. (b) 38. (b) 38. (b) 48. (a)	9.) 19.) 29.) 39.) 49.	4 (b) 10. (c) (b) 20. ((a) 30. (i (e) 40. (i (a) 50. (i
11. 21. 31. 41.	 (b) 2. (b) (d) 12. (b) (b) 22. (a) (d) 32. (c) (b) 42. (d) ← If a unit be Chion of the unit Numerator Denominate The fraction	3. (b) 13. (d) 23. (b) 33. (d) 43. (a) divided into = upper part	(b) 4 (a 14. 24. 34. 44. 2 0 any n of the art of t umera		(a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(c) RS 6. (c) 16. (c) 26. (c) 36. (c) 46. (c) fica ons al pa	7962 c) 7. (c) 17. (a) 27. (b) 37. (a) 47. tion Surts, one denomin	(d) (b) (d) (d) (c) or m	(d) 8. (a) 18. (b) 28. (b) 38. (b) 48. (a) ore of the second seco	9.) 19.) 29.) 39.) 49. these pa	4 (b) 10. (c) (b) 20. ((a) 30. (i (e) 40. (i (a) 50. (i

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Basic Mathematics/Arithmetic's

SOLVED EXAMPLES

		SOL	V L D	EXA
Example 1.	$1\frac{3}{7} \text{ of } 5 \div \frac{3}{4} + \frac{2}{3} \times$			
Solution	$\frac{10}{7}$ of $\frac{5}{7} \div \frac{3}{4} + \frac{2}{3} \times \frac{3}{4}$	$\frac{2}{3}$		
	$=\frac{10}{7}\times\frac{5}{7}\div\frac{3}{4}+\frac{2}{3}\times$	$\frac{3}{4}$ $\frac{2}{3}$		
	$=\frac{50}{9}\div\frac{3}{4}+\frac{2}{3}\times\frac{3}{4}$	$\frac{2}{3}$		•
	$=\frac{50}{7}\times\frac{3}{4}+\frac{2}{3}\times\frac{3}{4}$	$\frac{2}{3}$, '
	$=\frac{200}{21}+\frac{6}{12}-\frac{2}{3}$		دين	
	$=\frac{200}{21}+\frac{1}{2}-\frac{2}{3}$	10		•
	$=\frac{400+21-28}{42}=$	393	131	- 9 5
	42	42	14	$=9\frac{5}{14}$
Note: For	operation, BODMA	AS sho	uld be	appli appli
77				

Note: F ied. Example 2: Divide 0.00722 by 25. 25) 0.00722 (0.0002888 Solution

	50	
	222	
÷	200	
8	220	
÷	200	
	200	
1, -	200	
-		-:

Example 2: How many pieces each 2.34 m long can be cut from a rope 50 m long? What will be the length of the remaining piece?

		ter remaining preese.					
Solution	1: -	50	.5	0×100	50	00	
		2.34		234	2	34	
			_	- 10 and 10 a		,	
		234	4)	5000	(21		

Dasic Mathematics, Internetic	Basic	Mathematics/Arithmetic	s
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	320
	234
	66
-	

Complete number of pieces = 21 and length of the remaining piece = $\frac{86}{100} = 0.86$ m

SQUARE ROOT

A square root of a number is one of its two equal factors. If $9 \le a$ (or a)² = n, then 9 is a square root of n.

Example 4: Find the square root of 156816 Solution:

Example 5: Find the cube root of $2^{1}6$.

Solution:

$$\sqrt[3]{216} = \sqrt[2]{2 \times 2 \times 2 \times 3 \times 3 \times 3}$$
$$= \sqrt[3]{2^3 \times 3^2}$$

$$= 2 \times 3 = 6$$

Example: Find the square root of 00002601. Solution:

5.
$$\begin{array}{c|c} 0051 \\ \hline \rightarrow \rightarrow \rightarrow \rightarrow \\ 00 & 00 & 26 & 01 \\ & 25 \\ \hline 101 \\ 101 \end{array}$$

Basic Mathematics/Arithmetic's		32
	Sere and	
$\therefore \sqrt{.00002601} = .0051$		
1. 7. Find by factors the same 5625		
Example. 7: Find, by factors, the square root of $\frac{5025}{5929}$		
Solution: $\frac{5625}{5929} = \sqrt{\frac{5 \times 5 \times 5 \times 5 \times 3 \times 3}{7 \times 7 \times 11 \times 11}}$		
Solution: 5929 \bigvee 7×7×11×11		
5×5×3 75		
$=\frac{1}{7\times 11}=\frac{1}{77}$		
5 1105		
5 225 11 121 5 45 11 11		
5 9		
3 3		
		-
MCQ's	30 ¹	
1. Find the square root of 213444		
(a) 362 (b) 482 (c) 462	(d) 4	442
5625		
2. Find the square root of $\frac{5025}{5929}$		1
		75
(a) $\frac{75}{77}$ (b) $\frac{72}{77}$ (c) $\frac{65}{72}$	(d)	$\frac{75}{65}$
		05
(a) $\frac{75}{77}$ (b) $\frac{72}{77}$ (c) $\frac{34}{72}$		
3. Find the square root of 543169		(07
3. Find the square root of 543169	(d)	627
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727	O Lant	
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 	O Lant	
 3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 	(d)	32.04
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355	(d) (d)	32.04 1345
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355 (c) 1245 6. Find the square root of .00002601	(d) (d)	32.04 1345
3. Find the square root of 543169 (a) 737.5 (b) 737 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355 (a) 1255 (b) 1355 (c) 1245 (a) 0051 (b) .0053	(d) (d) (d)	32.04 1345 .0062
3. Find the square root of 543169 (c) 727 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (c) 1245 (a) 1255 (b) 1355 (c) 1245 6. Find the square root of .00002601 (c) .0059 (a) .0051 (b) .0053 (c) .0059	(d) (d) (d)	32.04 1345 .0062
3. Find the square root of 543169 (a) 737.5(b) 737(c) 7274. Find the square root of 1227.8016 (a) 35.04(b) 32.65(c) 35.065. Find the square root of 1809025 (a) 1255(c) 12456. Find the square root of .00002601 (a) .0051(b) .0053(c) .00597. Find the square root of $3\frac{3}{7}$	(d) (d) (d)	32.04 1345 .0062
3.Find the square root of 543169 (a) 737.5(b) 737(c) 7274.Find the square root of 1227.8016 (a) 35.04(b) 32.65(c) 35.065.Find the square root of 1809025 (a) 1255(c) 12456.Find the square root of .00002601 (a) .0051(c) .00597.Find the square root of $3\frac{3}{7}$ (c) 1.68	(d) (d) (d) (d)	32.04 1345 .0062
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355 (c) 1245 (c) 1245 6. Find the square root of .00002601 (a) .0051 (b) .0053 (c) .0059 7. Find the square root of $3\frac{3}{7}$ (a) 1.90 (b) 1.85 (a) 1.90 (b) 1.85 (a) 1.90 (b) 1.85 8. What must he substracted from 8934 to make it a perfect square?	(d) (d) (d) (d)	32.04 1345 .0062
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355 (c) 1245 (c) .0059 7. Find the square root of .00002601 (a) .0051 (b) .0053 (c) .0059 7. Find the square root of $3\frac{3}{7}$ 8. (a) 1.90 (b) 1.85 (a) 1.90 (b) 1.85 (a) 1.90 (b) 1.85 (c) 1.68 What must be substracted from 8934 to make it a perfect square? (c) 97	(d) (d) (d) (d)	32.04 1345 .0062 1.28 88
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355 (c) 1245 (c) 1245 6. Find the square root of .00002601 (a) .0051 (b) .0053 (c) .0059 7. Find the square root of $3\frac{3}{7}$ 8. (a) 1.90 (b) 1.85 8. What must be substracted from 8934 to make it a perfect square? (a) 98 (b) 100 (c) 97 	(d) (d) (d) (d)	32.04 1345 .0062 1.28
3. Find the square root of 543169 (a) 737.5 (b) 737 (c) 727 4. Find the square root of 1227.8016 (a) 35.04 (b) 32.65 (c) 35.06 5. Find the square root of 1809025 (a) 1255 (b) 1355 (c) 1245 6. Find the square root of .00002601 (c) .0059 7. Find the square root of $3\frac{3}{7}$ 8. (a) 1.90 (b) 1.85 (c) 1.68 97	(d) (d) (d) (d) (d)	32.04 1345 .0062 1.28 .88

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10.	A man plants 5625 ap many rows as there are	ple trees in his garden	and arrange them low many rows were	so that there are there?
с		(b) 84	(c) 75	(d) 65
11	(a) 74 Simplify	(0) 04		
11.	Simplify 2 5			
	$\frac{1.4 + 1\frac{2}{3} \div \frac{5}{3}}{\frac{4}{3} \times 1\frac{4}{5} \div \frac{2}{5}}$			
	$\frac{4}{3} \times 1\frac{4}{5} \div \frac{2}{5}$			
	(a) $\frac{1}{5}$	(b) $\frac{2}{5}$	(c) $\frac{3}{5}$	(d) $\frac{4}{5}$
12.	Simplify			
13.	$\frac{12\frac{1}{3} + 4\frac{3}{15} \text{ of } \frac{1}{3}}{\frac{8}{9} \div \frac{2}{3} + \frac{5}{2} \text{ of } \frac{3}{5}}$ (a) $8\frac{333}{2023}$	$\frac{\frac{4}{5} \text{ of } \frac{7}{8} \left(\frac{1}{4} \div \frac{5}{4} + \frac{3}{2} \right)}{1\frac{3}{4} + \frac{5}{8} - \frac{1}{8}}$ (b) $10\frac{333}{2024}$ (b) $2\frac{8}{48}$	(c) $9\frac{333}{2023}$ (c) $3\frac{10}{47}$	(d) $7\frac{333}{2023}$ (d) $1\frac{10}{42}$
14.	Express 1.008 as Vulgar	10		40
	(a) $1\frac{13}{1600}$	(b) $1\frac{14}{1600}$	(c) $1\frac{15}{1600}$	(d) $1\frac{16}{1600}$
15.	Add together .0036, .500 (a) 4.5043	07, 4.1 (b) 3.5452	(c) 4.6043	(d) 4.5443
16.	Express $\frac{5}{38}$ as Contin	ued Fraction	$\sim 10^{-1}$	
	(a) $5 + \frac{1}{2}$	(b) $4 + \frac{1}{1}$	in the map	per en sine se a la
	1+1		(4)	
WERE A	$2 + \frac{1}{2}$	$\frac{1+\frac{1}{2+1}}{2+\frac{1}{2+1}}$	nett battantinte	tarmer - N - 1
	$2 + \frac{1}{5}$	$2 + \frac{1}{2 + \frac{1}{5}}$	an Street of Periodian	la lot. Lot a la
				120
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(c) $3 + \frac{2}{1}$	(d) 2 +2
$1 + \frac{1}{1}$	$1 + \frac{1}{1}$
$2 + \frac{1}{2 + 1}$	$2 + \frac{1}{1}$
$2 + \frac{-}{5}$	$2 + \frac{1}{5}$

- 17. Find the value of
 - $3\frac{10}{11} + 5\frac{7}{15} 2\frac{9}{22} 4\frac{9}{10}$ (a) $2\frac{1}{15}$ (b) $1\frac{1}{15}$ (c) $3\frac{1}{16}$ (d) $4\frac{2}{9}$
- 18. Multiply 999 997 by 15
 - (a) $13999\frac{232}{333}$ (b) $14999\frac{323}{333}$ (c) $15999\frac{323}{333}$ (d) $15999\frac{324}{333}$
- 19. Simplify

20.

$$\frac{3}{4} \text{of} \left(\frac{1}{3} + \frac{1}{2}\right) \div \frac{\frac{1}{7}}{1\frac{1}{14}} \text{of} \frac{3\frac{1}{5}}{1\frac{3}{5}} \times \frac{1}{4} - \frac{1}{2} \text{of} \frac{3}{4} \times \frac{1}{2} \div \frac{2}{3}$$
(a) $\frac{38}{128}$ (b) $\frac{39}{128}$ (c) $\frac{37}{128}$ (d) $\frac{39}{127}$
Simplify

 $\overline{3-\frac{1}{2-\frac{1}{5}}}$ (a) $\frac{3}{4}$ (b) $\frac{2}{5}$ (c) $\frac{1}{5}$ (d) $\frac{1}{6}$ (e) $\sqrt{2}$ and $\sqrt{3}$ are equal
(f) $\sqrt{2}$ is less than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is bigger than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is bigger than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is bigger than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is less than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is bigger than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is less than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is bigger than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is less than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is bigger than $\sqrt[3]{3}$ (g) $\sqrt{2}$ is less than $\sqrt{3}$ (g) $\sqrt{2}$ is less than $\sqrt{3}$ (g) $\sqrt{2}$ (g) $\sqrt{2}$ is less than $\sqrt{3}$ (g) $\sqrt{2}$ (g) $\sqrt{2}$ is less than $\sqrt{3}$ (g) $\sqrt{2}$ (g) \sqrt

All the prime factors of 182 are

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121

200			Basic Mathematics	/Arithmetic's
328	(a) 2 and 13	(b) 2 and 7	(c) 7 and 13	(d) 2, 7 and 13
		(0)		, it
24.	$\frac{\sqrt{24} + \sqrt{216}}{\sqrt{96}} = ?$			_
	(Table Art		(c) $2\sqrt{6}$	(d) $6\sqrt{2}$
	(a) $2/\sqrt{6}$	(b) 2		
25.	$\sqrt{\frac{0.289}{0.00121}} = ?$			
20.		0.17	. 17	(d) $\frac{17}{11}$
: N	(a) $\frac{170}{11}$	(b) $\frac{0.17}{11}$	(c) $\frac{17}{110}$	11
		11		
26.	$\frac{(12^2 - 8^2) \times 10}{20 \times 2} = ?$			
	(a) 20×2	(b) 12.4	(c) 10	(d) 5
27.		74		(4) 1622
	(a) 1654	(b) 1643	(c) 1627	(d) 1632
28.	$\sqrt{\frac{7}{169}} = \frac{54}{39}$			
20,		(L) 224	(c) 108	(d) 4800
	(a) 2916	(b) 324	(c) 108	(0)
29.	$\sqrt{\frac{1}{\Omega}} = ?$			
	γ9 1	2		1
	(a) $\frac{1}{\sqrt{3}}$	(b) $\frac{3}{1}$	(c) $\sqrt{\frac{1}{18}}$	(d) $\frac{1}{3}$
30.	Simplify			5
	$\frac{\frac{1}{5} \div \frac{1}{5} \text{ of } \frac{1}{5}}{\frac{1}{5} \text{ of } \frac{1}{5} \div \frac{1}{5}}$			
	$\frac{1}{5}$ of $\frac{1}{5} \div \frac{1}{5}$			
	5 5 5	r • • • •		
• .	(a) 5	(b) 1	(c) $\frac{1}{5}$	
-		(b) 1	in whit will general test time	(d) 25
31.	$\frac{5}{4} \div \frac{7}{8} \times \frac{1}{5} = ?$	and the base of the set of the se		
	(a) $\frac{7}{2}$	1 2	7	50
;	$\left(a\right)\frac{1}{2}$	(b) $\frac{2}{7}$	(c) $\frac{7}{50}$	(d) $\frac{50}{7}$
32.	$\sqrt{3721} = ?$	ot)	10010 St 199-	
	(a) 186.5	(b) 7442	(c) 1860.5	(d) 61
33.	$\frac{7}{16} \times 1616 = ?$		and the second second	
	10		re 181 to eter all area	q eff he

Basi	ic Mathematics/Arithm	netic'	S				329
Du	(a) 77	(b)	707	(c)	7070	(d)	101
34.	$31.6 \div 0.001 = ?$				•	(4)	
34.	(a) 316 .	(b)	3160	(c)	31.6	(d)	3.16
	(e) None of these		1				
35.	$4115 \div 25 + 25 = ?$				14		*
50.	(a) 189.6	(b)	164.6	(c)	82.3	(d)	164.85
36.	5555 + 555 + 55 = ?						
	(a) 5165	(b)	6065	(c)	6165	(d)	16605
1.1	4 ? .						
37.	$\frac{4}{3} - \frac{?}{12} = 1$						
1	(a) $1\frac{3}{12}$					(4)	20
	12	(b)	3	(c)	4	(d)	28
38.	$545 \times 14 = ?$	À.a.	1.1.1.1.10		70(0	(4)	7050
	(a) 6630	(b)	7630	(c)	7060	(d)	7050
39.	$208 \div 13 = 2 \times ?$						1
		(b)	1			(d) :	$55\frac{1}{4}$
	(a) 16	(0)	4	(c)	4		4
	(e) None of these			1			
40.	$\frac{9}{10} \times \frac{2}{8} + \frac{1}{6} = ?$				10		7
	(a) $\frac{47}{120}$	(b)	3	(c)	$1\frac{15}{60}$	(d)	$4\frac{7}{10}$
	$(a) \frac{120}{120}$	(0)	8		60		10
41.	Find the square root of	1867	1041	<i>(</i>)	1002	(d)	4121
	(a) 4221	(b)	4222	(c)	4223	(d)	4121
42.	A student was asked to	simpl	ify the fraction				
	0.0016×0.025 0.12	16×0	$.105 \times 0.002$				
	0.005 0.5 0.005	12.1	1625×0.039				
4	0.325×0.5 0.085 his answer was 2/15. By	howr	nany per cent was	his an	swer is correct.		22 50/
	his answer was $2/15$. By		221/2%	(c)	33%	(d)	32.5%
43.	(a) $33^{1/2}\%$	(b)					0.025(0
чэ.	$0.157 \times 0.17 = ?$	a >	0.02669	(c)	0.2569	(d)	0.02569
	(a) 0.2669	(b)	0.02007				
	(e) None of these						
44.	$\frac{2 \times 9 \times 6}{2 \times 9 \times 6} = 2$						
	3					(1)	1
				(c)	9	(d)	9
÷.,	(a) 18	(b)	36		Antoralla		17572
		9					
45.	(e) None of these	11 de 1	• 18 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Cashi and and		
	$208 \div 13 = 2 \times ?$						

330			Basic Mathematics/Arithmetics/			Arithmetic's		
	(a) 8		(b) $\frac{1}{4}$		(c)	4		(d) $55\frac{1}{4}$
46.	660 ÷ 1.1 + 6 (a) 126 (e) None o		(b) 60	00	(c)	1260		(d) 666
	•			ANSW	ERS			
1. (c 11. (21. (31. (41. (b)12. (c)b)22. (c)b)32. (d)	3. (b) 13. (a) 23. (d) 33. (b) 43. (d)	4 (a) 14. (a) 24. (b) 34. (c) 44. (c)	5. (d) 15. (c) 25. (a) 35. (a) 45. (a)	6. (a) 16. (a) 26. (a) 36. (c) 46. (d)	7. (b) 17. (a) 27. (d) 37. (c)	8. (a) 18. (b) 28. (b) 38. (b)	9. (b) 10. (c) 19. (b) 20. (a) 29. (d) 30. (c) 39. (e) 40. (d)

EXPLANATION OF DIFFICULT QUESTIONS

 $1. 213444 = 2^2 \times 3^2 \times 11^2 \times 7^2$

...

 $\sqrt{213444} = 2 \times 3 \times 11 \times 7$

= 462

2	213444	
2	106722	
3	53361	
3	17787	
11	5929	, '
11	539	
7	49	
	7	

2. Square root of a fractional No.

Square root of numerator

Square root of deno min ator

5	5625	7	5929
5	1125	7	847
5	225	11	
5	45		121
3	9	• • •	
	3		
	$5625 = 5 \times 5 \times 5 \times 5 \times 3 \times 3$		
	$5929 = 7 \times 7 \times 11 \times 11$		1.1
	$\sqrt{6525} = 5 \times 5 \times 3 = 75$	· · · · ·	erd in p
	$\sqrt{5929} = 7 \times 11 = 77$,
			•

$\sqrt{\frac{5625}{5929}}$	$=\frac{75}{77}$	
4	737	_
7	 543169 49↓	
143	531 429 ↓	Double 7
1467	10269 10269 0	Double 73

Step 1: Begin on the right. Mark off the digits in pairs from right to left.

Step 2: Take the first part of digits, and find the nearest perfect square. The largest perfect square less than 54 is 49, the square of 7. Write 7 on the top in the answer and also in the divisor Subtract $7 \times 7 = 49$ from the first period, the remainder is 5.

Step 3: Bring down the next pair 31, Double 7, the number on top and place its double 14 on the outside as shown. Divide 14 into 53 to obtain 3. Write 3 on the top to the right of 7 in the answer and to the right of 4 in 14 the divisor. Multiply 143 by 3 and place under 531. Subtract the remainder is 102.

Step 4: Bring down the next pair 69. Double 73, the number on top, and place its double 146 on the outside. Divide 14 into 102 to obtain 7, write 7 on top to the right of 3 in the answer and to the right of 6 in 146 in the divisor. Multiply 1467 by 7 and place under 10269. Substract, the remainder is zero. 737 is therefore the exact square root.

		35.04	
	3	←←→← 1227.8016 9↓	55 6
•	65	327 325 ↓↓	2
	7004	28016 28016	
	1227	0	

$\sqrt{1227.8016} = 35.04$

Explanation

4.

4.

- 1.
- Beginning at the decimal point, mark off digits in pairs to left and right. 3 is the largest whole number square root that is contained in 12, which constitutes the 2.
- Double 3 and place on the outside. Bring down the next pair to get 327. Divide 6 into 32 to obtain 5 and place of under to obtain 5. Write 5 on top as well as on the divisor. Multiply 65 by 5 and place it under 327 Sub-3.
 - Place decimal point in root after the 5 because the root of the next period has a decimal value value.

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3.

332
332
5. Bring down 80 next to 27, making 280 the new dividend. Since 70 does not divide 280 put a zero both in the root and the divisor and bring down the next pair 16 also.

6. Since the given number is a perfect square, the remainder is zero.

5.

C LINC D-		-
5	1345	_
1	1 809025	
	$1 \downarrow 25$	
23	80	Double 1
· · ·	69 ↓	
264	1190	Double 13
	1056↓	_
2685	13425	Double 134
	13425	_
	0	- ·

The farthest left hand group contains only one digit which is 1. Since $1^2 = 1$, we write 1 as the first digit in the answer.

 $\sqrt{1809025} = 1345$

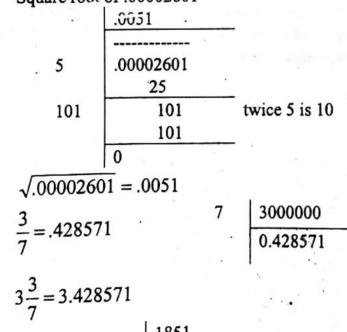
The operation in obtaining in square root of a decimal number are the same as for whole numbers.

6. Square root of .00002601

÷

....

7.



	1851	X
1. 12196 P		and the designal point much off high-
1	3.428571	in index schole consider square cost that
	1	£
28	2.42	the set place on the oblighter iteracy on a
	2.24	to the most floor as find must one which it in
365	18.85	Les subarents mil Manador.
	18.25	counter and with they metalogy have all
3701	6071	

333

3701 2370 $3\frac{3}{7} = 1.85$ 94 8. 9 8934 81 184 834 Hence we should substract 98. 736 98 9. 75 ----7 5678 49 145 778 725

From the above it is obvious that 5678 is greater than $(75)^2$ but less than $(76)^2$, therefore we must add $(76)^2 - 5678 = 98$ to it. 10.

	75	
7	5625	
	49	
145	725	
	725	

No. of rows = $\sqrt{5625} = 75$ $\frac{14}{10} + \frac{5}{3} \div \frac{5}{3} \cdot \frac{7}{5} + 1$ 11. $\frac{4}{3} \times \frac{9}{5} \div \frac{2}{5} \cdot \frac{6}{1}$

 $=\frac{12}{5} \times \frac{1}{6} = \frac{2}{5}$ $=\frac{2}{5}$ 12. $\frac{37}{3} + \frac{63}{15} \times \frac{1}{3} = \frac{4}{5} \times \frac{7}{8} \left(\frac{1}{4} \times \frac{4}{5} + \frac{3}{2}\right)$

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8 3 5 3 7	5 1
$\frac{8}{9} \times \frac{3}{2} + \frac{5}{2} \times \frac{3}{5} \div \frac{7}{4}$	$+\frac{-}{8}\frac{-}{8}$
	7 17
$\frac{37}{3} + \frac{7}{5}$	$\frac{7}{10} \times \frac{17}{10}$
=÷	
4 3	$\frac{7}{4} + \frac{5}{8} - \frac{1}{8}$
$= \underline{\qquad} \div \\ \frac{4}{3} + \frac{3}{2}$	4 8 8
185+21 7×17	
	ki Ki
$=\frac{15}{8+9}\div\frac{100}{18}$	R)
$=\frac{15}{\frac{8+9}{6}}\div\frac{100}{\frac{18}{8}}$	
	8
$=\frac{206}{15}\times\frac{6}{17}\div\frac{7\times17}{100}$	$\times \frac{18}{18}$
206 6 100×1	8
$=\frac{206}{15} \times \frac{6}{17} \times \frac{100 \times 1}{7 \times 17}$	< 8
$=\frac{18540}{2023}$	a .
$=9\frac{333}{2023}$	
15	
$\frac{1}{2+\frac{3}{5-2}}$	
$2 + \frac{5}{5 \cdot 3}$	
$\frac{1}{3}$ $\frac{1}{15}$	
2	
15	2
15	
2+	
$\frac{2}{3} \div \frac{3}{15} \times \frac{15}{2}$	
3 15 2	
15	
2. 3	
$2 + \frac{5}{2 \times 2}$	
- 3 3	
_ 15	· ·
$=\frac{3}{2+3}$	
$2 + - \times - \frac{1}{10}$	

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13.

$$= \frac{15}{2 + \frac{27}{10}}$$

$$= \frac{15}{\frac{47}{10}} = 15 \times \frac{10}{47} = \frac{150}{47} = 3\frac{9}{47}$$

$$= 3\frac{9}{47}$$
14. 1.008125 = $1\frac{8125}{1000000}$

$$= 1\frac{13}{1600}$$
15. .0036
.5007
 $\frac{4.1000}{4.6043}$
16. Simplify into lowest terms:
 $5\frac{27}{38} = 5 + \frac{1}{1 + \frac{11}{27}}$
 $= 5 + \frac{1}{1 + \frac{1}{2 + \frac{5}{11}}}$

1

5 1 11

1

 $1 + \frac{1}{1}$

1

1+

2+

2+-

= 5

= 5

 $2 + \frac{1}{5}$ The expression

17,

$$= 3\frac{10}{11} + 5\frac{7}{15} - 2\frac{9}{22} - 4\frac{9}{10}$$

= 3 + 5 - 2 - 4 + $\frac{10}{11} + \frac{7}{15} - \frac{9}{22} - \frac{9}{10}$
= 2 + $\frac{300 + 154 - 135 - 297}{330}$
= 2 + $\frac{22}{330}$
= 2 $\frac{1}{15}$

18. Produ

19.

$$= \left(1000 - \frac{2}{999}\right) \times 15$$

$$= 15000 - \frac{30}{999}$$

$$= 14999 + \left(1 - \frac{30}{999}\right)$$

$$= 14999 + \frac{969}{999}$$

$$= 14999 \frac{323}{333}$$

$$\frac{3}{4} \text{ of } \left(\frac{1}{3} + \frac{1}{2} \div \frac{1}{7} \text{ of } \frac{16}{5}\right)$$

$$\times \frac{1}{4} - \frac{1}{2} \text{ of } \frac{3}{4} \times \frac{1}{2} \div \frac{2}{3}$$

$$= \left(\frac{3}{4} \times \frac{5}{6}\right) \div \left(\frac{1}{7} \times \frac{14}{15} \times 2\right)$$

$$\times \frac{1}{4} - \left(\frac{1}{2} \times \frac{3}{4}\right) \times \frac{1}{2} \times \frac{3}{2}$$

$$= \frac{5}{8} \times \frac{15}{4} \times \frac{1}{4} - \frac{3}{8} \times \frac{1}{2} \times \frac{3}{2}$$

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Rasic	Mathemati	03/11
Due	75-36	39
	= 128	128
	1	
20.	$=\frac{1}{3-\frac{1}{7}}$	-
	$2 - \frac{1}{5}$	
	$=\frac{1}{3-\frac{1}{\frac{3}{5}}}$	
	$-3-\frac{5}{3}$	
	$=\frac{1}{\frac{4}{3}}=\frac{3}{4}$	*
	3	

3 – Ratio and Proportions

If 'a' and 'b' are any two numbers and $b \neq 0$, then the fraction or quotient a/b is called ratio of 'a' to 'b' and is written as a : b.

For example, ratio of 2 to 5 is written as 2:5

The term in the numerator is called antecedent.

The term in the denominator is called consequent.

In the ratio 2 : 5, the fraction is written as 2/5, where 2 is antecedent and 5 is consequent. The two numbers between which a ratio is expressed are called terms of a ratio.

When antecedent and consequent of one ratio becomes respectively, the consequent and antecedent of the other, the second ratio is called inverse ratio or reciprocal ratio.

For example, $\frac{1}{2}$ or 1:2 is the inverse ratio of 2:1.

Compound Ratio

When the antecedent and consequent of two or more ratios are multiplied to get a new consequent and new antecedent, the new ratio formed is called its compound ratio.

Example: 1:2, 2:3, 3:4 is

$$\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} = \frac{6}{24}$$
 or 6:24 i.e., 1:4

Proportion

Proportion is an equation that states two ratio are equal.

The antecedent of the first ratios and the consequent of the second ratio and the antecedent of the second and consequent of the first are called extremes and means of proportion respectively.

Cross Product: It states that product of the extremes is equal to the product of the means.

 $\frac{a}{b} = \frac{c}{d}$ is called cross product rule i.e., a:d::b:c.

Continued Proportion: Three quantities of the same kind are said to be in continued proportion when the ratio of the first to the second is equal in the ratio of the second to the third.

The second quantity is called a mean proportion between the first and third.

Rule: Mean proportion between two numbers is equal to the square of their product.

A direct proportion is indicated when two quantities are related that an increase in one causes a corresponding increase in the other or when a decrease in one causes a corresponding decrease in the other.

An inverse proportion is indicated when two quantities are so related that an increase in one causes a decrease in the other or vice-versa. For example.

1. Greater speed, less time

2. Large volume, less density

More men working, less time taken

4. Slow speed, more time taken.

Unitary method: The method by which, we first find the value of a unit is called unitary method.

For example, If 20 men can do a job, in 30 days, then 6 men shall do the job in 100 days.

20 men can do the work in 30 days

I man can do the work in 20×30 days

Or

6 man can do the work in $\frac{20 \times 30}{6} = 100$ days.

Partnership: It is an association of two or more persons who put in money together in order to carry on a certain business.

Partnership is of two kinds:

(a) Simple partnership

(b) Compound partnership.

SOLVED EXAMPLES

Example 1. A and B are partners in business. A invests Rs. 8000 in one month, and B invests Rs. 9000 in a month. They earn Rs. 340 amount of profit. What is B's profit?

Solution. A's invests Rs. 8000 for 1 month

Similarly, B invests Rs. 9000 for 1 month.

Hence Rs. 340 must be divided in the ratio of

8000 : 9000 or 8 : 9

B's share = $\frac{8}{17} \times 340 = \text{Rs.}160^{110} \times 100^{110}$

Example 2: X, Y, Z are partners. X receives 2/3 of the profits.

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Y and Z receives dividing this remainder equally. X's income is increased by Rs. 200 when the rate of profit is rise from 5 to 7 percent. Find the capital of B. Solution: Let total capital be = Rs. X

A puts in $\frac{2}{3}$ A and B puts in $\frac{X}{6}$ Now 2% of A's capital = 200 $\frac{2}{100} \times \frac{2X}{3} = 200$ X = 15000

Or

Hence B's capital is

 $15000 \div 6 = 2500.$

MCQ's Divide 560 into three parts proportional to 7, 4, 3. 1. (a) 280, 160, 120 250, 210, 100 (c) (b) 300, 130, 80 300, 200, 60 (d) Divide 702 into three parts proportional to $\frac{1}{2}, \frac{1}{3}$ and $\frac{1}{4}$ 2. (a) 324. 216, 162 (b) 350, 150, 202 300, 200, 202 (c) (d) None of these 3. Divide Rs. 80 in the proportion of 3:6:7 (a) 20, 30, 30 (b) (c) 10, 35, 35 (d) 15, 30, 35 None of these 4. Divide 81 into three parts such that half of the part, one third of the second part and one fourth of the third part are equal. (a) 18, 27, 36 (b) 20, 30, 31 (c) 25, 35, 21 (d) 15, 45, 21 5. Divide 37 into two parts so that 5 times one part and 11 times the other are together 227. (a) 15, 22 (c) (b) 30, 7 20,17 (d) 25, 12 6. Divide Rs. 225 into two parts such that one may be to the other as 2:7 (a) 40, 185 (b) 50, 175 (c) 90, 135 7. (d) 45, 180 If 3:4 = 6 X, then the value of X is (a) 18 8. (b) 8 (c) West for Lord (d) 9 If 9: X = X : 16, then X is (a) 12 (b) 9 9 (c) 8 $(d) \cdot 4$ Which ratio is greater or 5 (a) 10. What is the third proportional to 16 and 36 All of the above (d) None of them (c)

(b) 16 52 (c)

(d)

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340	Basic Mathematics/Arithmetic's
11.	What is the mean proportional between 5 and 80
	(a) 20 (b) 30 (c) 85 (d) 75
12.	What is the value of X is 10 : 35 : : X : 42
12.	(a) 12 (b) 45 (c) 35 (d) 26
13.	If $A : B = 3 : 4$ and $B : C = 8 : 9$, then $A : B : C$ is
15.	(a) $8:6:9$ (b) $9:8:6$ (c) $6:8:9$ (d) $3:32:9$
14.	If 14 : 35 : 21 : X, then value of X is
	(a) $\frac{14 \times 35}{21}$ (b) $\frac{35 \times 21}{14}$ (c) $\frac{14 \times 21}{35}$ (d) $\frac{35}{14 \times 21}$
	(a) $\frac{14 \times 35}{21}$ (b) $\frac{35 \times 21}{14}$ (c) $\frac{14 \times 21}{35}$ (d) $\frac{35}{14 \times 21}$
15.	The third proportional of 36 and 16 is
	36×36 16 16×16 36
	(a) $\frac{36 \times 36}{16}$ (b) $\frac{16}{36 \times 36}$ (c) $\frac{16 \times 16}{36}$ (d) $\frac{36}{16 \times 16}$
16.	
10.	The mean proportional of 0.32 and 0.02 is (a) 0.34 (b) 0.3 (c) 0.16 (d) 0.08
17.	
17.	Which of the following is the greatest
	7:9, 2:4, 3:1, 7:1
18.	(a) $7:9$ (b) $2:4$ (c) $3:1$ (d) $7:1$
10.	If $a : b = 3 : 4$, $b : c = 4 : 5$ and $c : d = 5 : 6$, then $a : d = ?$
19.	(a) $2:1$ (b) $3:4$ (c) $1:2$ (d) $2:3$
19.	Value of x in the ratio $40:30::10:x$ is
20.	(-7) (-7)
20.	In what proportion must a man mix beer at Rs. 11 a litre with beer at Rs. 6 a litre, so
	that the mixture may be worth Ks. 8 a litre?
21.	(a) $2:3$ (b) $3:2$ (c) $5:7$ (d) $5:6$ If $x: y = y: z$, then $x = ?$
10.55%	(a) z (b) $\frac{z}{y^2}$ (c) $\frac{y^2}{z}$ (d) $\frac{y}{z}$
	(a) z y^2 (c) $-\frac{1}{z}$ (d) $\frac{y}{z}$
22.	The inverse ratio of 12 to 18, is
	2
	(a) $\frac{3}{2}$ (b) $\frac{2}{3}$ (c) $\frac{1}{3}$ (d) $\frac{3}{1}$
23.	Two numbers are in the set: 3 $(a) - \frac{1}{1}$
	Two numbers are in the ratio of 2 : 3 and if 8 is added to each of them, they become ^j 3
24.	The wages of two persons are in the ratio of
	The wages of two persons are in the ratio of 4 : 7. Both of them spend of
	savings is the money. The ratio of the
25	(a) 0:2 (b) 4.7
25.	(a) $8:2$ (b) $4:7$ (c) $7:5$ (d) $5:3$ (a) $3:4$ (b) $4:7$ (c) $7:5$ (c) $7:5$ (d) $5:3$
26.	(a) 5:4 (b) 7.0 interperimeters are in the ratio 0^{1}
20.	Rs. 49 were divided among 150 children each (c) 5:6 (d) 6:7 Ho ¹¹ 42
	Rs. 49 were divided among 150 children, each girl has 8 as and each boy 4 as. Ho [#] 42 (a) 100
10.14	(a) 100 b). (b) 104 (c) 50
	(c) 50 (d) 70
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Basic Mathematics, Attrainteric s

Ivia		interi	C S					
Divi	de Rs. 2160 amo	ng A,	B and C so	that A			2/	11
ma	y get twice as m	uch as	C.	that A	may get ha	alf as much	Jugain as D	
(a)	1080, 720, 360	(b)	720, 1080.	360		•	gain as B and	С
	[[[]]]	100	/80 1000		(c)	360.	720 100	0.0
The	sides of two squa	ares ar	re 4 m and 6	m WL			720, 108	30
(a)	5:7	(b)	6:8	· · · · · · · · · · · · · · · · · · ·	at is the ra	tio of their a	reas?	
Whi	ch ratio is the gr	eater		(-)	т.у	(d)	7.0	
(a)	5:7 or 9:14	(b)	$11 \cdot 21 \text{ or } 1$	0.004				
Waq	ar took 3 wicke	ets in 4	5 overs and	19:28(0	c) 47 : 60 or	91:108 (d)	None of these	
bet	ter record?		e overs and	Wasim	1 took 2 wi	ckets in 4 o	vers. Who has	
a)	waqar	(\mathbf{b})	Wasima					
A m	an earns Rs. 750	(e))0 a va	washin	(c)	a and b	(d)	None of these	
to l	his expenditure.	o a yt	and spen	ds Rs.	300 a year.	Find the ra	tio of his incom	10
a)	23:21	(h)	24.21				a neon	IC .
Am	an earns Rs 750		24:21	(c)	22:21	(d)	25:21	
his	income.	o a ye	ar and spend	ds Rs. 3	00 a year. I	Find the ratio	o of his saving	to
a)	5.25						ing a ling i	
		(0)	3.25	(c)	2.25	(d)	4.25	
(a)	20		rk in 45 days	, in how	v many day	s will 27 mer	ı do it?	
				101	15	(d)	30	
(a)	40	b, the j	price of 16 b	ooks is i	Rs.			
		(b)	50	(c)	56	(d)	60	
get	s Rs 4 C gate D	nongs	t A, B and C	C, so the	at if A gets	Rs. 2, B get	s Rs. 3 and if	В
	, 800 -		mat is the sh	are of A	4?			-
		(b)	50	(c)	52	(d)	54	
(a)	ax on income of	Rs. 8 4	4000 is Rs. 1	2600. F	ind the rati	o of the tax t	o the income.	
	5.20	(0)	4:20	(C)	5.20	(d)	6.20	
ine	sides of two squa	ires ar	e 4 m and 6	m. What	at is the rat	io of their pe	rimeters.	
(a)	2:3	(b)	2:4	(c)	2:5	(d)	2:6	
	le Rs. 793 into th	ree p	arts such the	at their	amounts 2,	3 and 4 year	rs may be equa	d.
ine	rat of interest be	eing 5	%.					
-14		e adam	And the second second		. 1 1	1	1 1 1	
a)	10.15.20	1		100	$(c) \frac{10}{10} = 15$	$\frac{1}{20}$ (d) -	10:115:120	
Divid	Pa 050	(b)	110:115:	120	10 15	20		
sha	re 2 . 2	g A, B	B, C so that	A's sha	re : B's sh	are 2 : 3 and	B's share : C	'S
(a)	200 200		4107 10 930	સંયુ 🕫 🕅 🤉	ant of edge		200 250 100	
f 20	200, 300, 450	(b)	250, 300, 4	00 (c)	350, 250,	350 (d)	200, 350, 400	2
1.159	why cost Da oo			•				
15 m	405.00	(b)	4.50	(c)	40.50	(d)	45.00	1000
	cu can do a	e of w	ork in 20 da	vs. how	many day	s can 25 mei	i iinish the sam	e
(a)	10	041910	ent has which the	Contras.	a love a latery	0.6	20	
lf3.	12× stand an test						20	0
bo	men or 6 boys can	n do a	piece of wo	rk in 20) days, how	many days	will 6 men and a	0
(a)	s take to do the	same v	work?		E 1			
6		(b)	5	(c)	10	(d)	10	
	121 F					Scanned wit	h CamScanner	
	Divid Divid (a) (b) (a) (b) (b) (a) (b) (c) (a) (c) (c) (c) (c) (c) (c) (c) (c	Divide Rs. 2160 amo may get twice as m (a) 1080, 720, 360 (d) The sides of two squa (a) 5:7 Which ratio is the gr (a) 5:7 or 9:14 Waqar took 3 wicket better record? (a) Waqar A man earns Rs. 750 to his expenditure. (a) 23:21 A man earns Rs. 750 his income. (a) 5.25 (f 12 men do a piece (a) 20 (f 10 book cost Rs. 35 (a) 40 Rs. 210 is divided ar gets Rs. 4, C gets R (a) 48 The tax on income of (a) 3:20 The sides of two squa (a) 2:3 Divide Rs. 793 into the the rat of interest be (b) 10:15:20 Divide Rs. 950 amon share 2:3 (a) 10:15:20 Divide Rs. 950 amon share 2:3 (a) 200, 300, 450 (c) 00 (c) 0	Divide Rs. 2160 among A, may get twice as much as (a) 1080, 720, 360 (b) (d) 300, The sides of two squares and (a) $5:7$ (b) Which ratio is the greater (a) $5:7 \text{ or } 9:14$ (b) Waqar took 3 wickets in better record? (a) Waqar (b) A man earns Rs. 7500 a yet to his expenditure. (a) 23:21 (b) A man earns Rs. 7500 a yet his income. (a) $23:21$ (b) A man earns Rs. 7500 a yet his income. (a) 5.25 (b) If 12 men do a piece of wor (a) 20 (b) If 10 book cost Rs. 35, the p (a) 40 (b) Rs. 210 is divided amongs gets Rs. 4, C gets Rs. 5. W (a) 48 (b) The tax on income of Rs. 8 (a) $3:20$ (b) The sides of two squares and (a) $2:3$ (b) Divide Rs. 793 into three p the rat of interest being 5 (a) $10:15:20$ (b) Divide Rs. 793 into three p the rat of interest being 5 (a) $10:15:20$ (b) Divide Rs. 950 among A, E share 2:3. (a) $200,300,450$ (b) (c) men can do a piece of w work? (a) 12 (b)	Divide Rs. 2160 among A, B and C so may get twice as much as C. (a) 1080, 720, 360 (b) 720, 1080, (d) 300, 780, 1080 The sides of two squares are 4 m and 6 (a) $5:7$ (b) $6:8$ Which ratio is the greater (a) $5:7 \text{ or } 9:14$ (b) $11:21 \text{ or } 100000000000000000000000000000000000$	pivide Rs. 2160 among A, B and C so that A may get twice as much as C. (a) 1080, 720, 360 (b) 720, 1080, 360 (d) 300, 780, 1080 The sides of two squares are 4 m and 6 m. Wh (a) $5:7$ (b) $6:8$ (c) Which ratio is the greater (a) $5:7 \text{ or } 9:14$ (b) $11:21 \text{ or } 19:28(0)$ Waqar took 3 wickets in 5 overs and Wasim better record? (a) Waqar (b) Wasim (c) A man earns Rs. 7500 a year and spends Rs. to his expenditure. (a) $23:21$ (b) $24:21$ (c) A man earns Rs. 7500 a year and spends Rs. to his expenditure. (a) 5.25 (b) 3.25 (c) If 12 men do a piece of work in 45 days, in how (a) 20 (b) 15 (c) If 10 book cost Rs. 35, the price of 16 books is (a) 40 (b) 50 (c) Rs. 210 is divided amongst A, B and C, so th gets Rs. 4, C gets Rs. 5. What is the share of A (a) $3:20$ (b) $4:20$ (c) The tax on income of Rs. 84000 is Rs. 12600. F (a) $3:20$ (b) $4:20$ (c) The tax on income of Rs. 84000 is Rs. 12600. F (a) $3:20$ (b) $4:20$ (c) The sides of two squares are 4 m and 6 m. Wh (a) $2:3$ (b) $2:4$ (c) Divide Rs. 793 into three parts such that their the rat of interest being 5%. (a) $10:15:20$ (b) $110:115:120$ Divide Rs. 950 among A, B, C so that A's sha share 2:3. (a) 200, 300, 450 (b) 250, 300, 400 (c) (f 3 men or 6 boys can do a piece of work in 20 boys take to do the same work? (a) 6	pivide Rs. 2160 among A, B and C so that A may get have may get twice as much as C. (a) 1080, 720, 360 (b) 720, 1080, 360 (c) (d) 300, 780, 1080 (e) 300, 780, 1080 (f) esides of two squares are 4 m and 6 m. What is the ra (a) 5:7 (b) 6:8 (c) 4:9 Which ratio is the greater (a) 5:7 or 9:14 (b) 11:21 or 19:28(c) 47:60 or Waqar took 3 wickets in 5 overs and Wasim took 2 wi better record? (a) Waqar (b) Wasim (c) a and b A man earns Rs. 7500 a year and spends Rs. 300 a year. (b) 24:21 (c) 22:21 (c) 22:25 (c) 21 (c) 10:15:20 (c) 10:15:20 (c	pivide Rs. 2160 among A, B and C so that A may get half as much as C. (a) 1080, 720, 360 (b) 720, 1080, 360 (c) 360. (d) 300, 780, 1080 (c) 360. The sides of two squares are 4 m and 6 m. What is the ratio of their a (d) (d) 300, 780, 1080 (c) 4 : 9 (d)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

~ ~~	*		20		a.		Basic M	athem	atics	/Arithn	netic's
342					provisions	for 28 d	avs. After	4 days	, 300	men lea	ve the for
43.	If 120	00 men	in a fort	have	provisions	101 20 0					101
	How	v long v	vill food	last n	ow.	(c)	30		(d)	18	
	(a)	28	×	100 C	32	•	bor of day	s: after	10 d	ays 1/5	of the ma
44.	A gan	rrison h	ave prov	vision	for a certa	ain num	ill now la	st iust	as, lo	ng as be	fore: Ho
1.	des	ert and	it is four	nd the	for a certa at the prov	ISIONS W	in now in	-is	,	0	, 110
		g was th								5	
				(b)	50	(c)	15 1	at A · F			$= 8 \cdot 0$
45.	A, B.	C, D, a	re four o	luanti	50 ties of the	same kir	id such th	at A . I	,	1, 2 . (0.9,(
× .	: D	= 15 : 1	6 What	is the	ratio of A	10 D.				4:9	
-		10000		a \	C 0	(0)	5:5				- 9 . 0 . 0
46.	A.B	C.Da	re vour o	uanti	5:8 ties of the	same kin	d such tha	it A:B	= 3 : 4	, D : C ·	- o : 9, C :
113	1">	15 20	15.00	(L)	20 . 10 . 4	$15 \cdot 48 \cdot ($	(c) 10 : 20 :	30:40) (d)	15:2	0:25:30
47.	(a) If 20) men 9	ssemble	8 mag	chines in a	day, how	w many m	en are	neede	ed to as	semble 12
4/.	m	achines	in day?	¥		• •		r.			
		30		(b)	40	(c)	50		(d)	60	
40	(a) If 14	5 books	cost Rs	70 ho	w much wil						
48.		56	CUSI INS.	(b)	58	(c)	60		·(d)	62	
40	(a)		5 60 in 1		tio 7 : 5. W			ue.			
49.	200 200		5.00 III (5.40	(c)	7.84		(d)	6.30	
-0	(a)		h l d			• •		· · · ·	(-)		
50.		_	io snouia		e decreased				(d)	2:5	
	(a)	4:5	5 A 3	(b)	3:5	(c)	1.5	1/2	· ·		value of
51.				to the	ee parts p	roportion	ial to 1/2,	1/5 and	1 1/4,	inu inc	, and ,
		ird part		(h)	Do 162	(a)	Dc 109		(d)	None of	fthese
	(a)	Rs. 81		(0)	Rs. 162	(C)	KS. 100		(d)		
52.	Rs.	24 15 01	vided int	0 two 146 7	parts such	that / th	imes the fi	rst par	t add		innes tas
÷., :		17 ·	rt makes	CHARGE CONTRACT	The first pay 13	-	11		(1)	14	
52	· · /		De 6 me				11			16	roo have
53.	ASI	rai nas	RS. 0 mu	fhas	an Asghar a share of	and Rs.	9 more th	an Adn	an. A	ll the th	lee ma
		Rs. 10		(b)		(a)	D. 7		<i>(</i> 1)	D- 12	7
54.	· /					(C) a 2000 f	Rs. 7		(d)	Rs. 13	non for 6
54.	A a	anthe H	lit a Dusi	choul	A invests R ld A be paie	d out of a	or 4 mon	ths and	inves	ts Rs. 20	J00 101
6 1 N	(2)	Rs. 20	0 .	(h)	De 300		De 260	it of Rs			
55.	If 8	men w	uld taka	75 da	Rs. 300	(0)	KS. 250		(d)	Rs. 350	finish it
	in	40 days	9	75 Ua	ys to finish	a piece	of work, h	ow mai	ny me	n would	IIIIo
· · .	(a)	and the second	•	(b)	10		20	1. State	-	• •	
56.						(c)	30	(17)	(d)	15	•
(e) • •	(a)	Z ⁴	or cionar ((b)	nd Y is pro Z ^{3/2}				propo	rtional to	
57.	Aa	nd B are	two allo			(c)	Z		(d)	Z	tio 7:2
	an	d 7 : 1	resnective	JV IF	gold and co	oper pre	pared by n	nixing n	netals	in the ra	d alloy
1	C,	find the	e proporti	ion of	equal quar gold and co	inties of	alloys are	melted	to for	m a thu	
200	(a)	7:5		(b)	6:5					4.5	
			S. Contra	(-)	0.0		5:5	Mar	(d)	4:5	
	_				ation Material	60) i i	10. T. S. 10.	43		1 S	_

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Basi	C Widenetu	o stations	the first	5000-					343			
58.	 Basic 1 Between two stations the first, second and third class fares were fixed at first in the ratio 8:6:3 but afterwards the first class fare were rade. 											
	58. ratio 8 : 6 : 3 but afterwards the first class fare were reduced by 1/6 and the second class by 1/12. In a year, the number of first second and this by 1/6 and the second											
class by 1/12. In a year, the number of first, second and third class passengers were respectively as 9:12:26 and the money taken at the hold.												
non a t t pussengers,												
	(a) 320		(b) 300		(c)	420)	(d)	520			
59.	If 30 men, w	orking 8 h	ours a da	y can	do a pie	ece of	work in	24 dave i	520 n how many days			
	18 men wo	orking 10 h	ours a day	y will	finish t	he do	uble the v	vork	a now many days			
	(a) 64		(b) 65		(c)		-ore the f	(d)	68			
		r undertak	es to dig	a cana	al 12 km	i long	r in 350 d	(u) ave and a	mployes 45 men.			
00.	He finds a	after 200 d	avs of w	ork th	hat 41/	km d	of canal	has been	completed. How			
	many extr	a-men mus	t be empl	oved	to finish	the v	vorks in t	imo	completed. now			
13	(a) 50		(b) 55	ojeu	(c)	60			65			
	(u) 50		. ,					(d)	05			
				ANS	SWER	S						
1. (a)	2. (a)	3. (b)	4 (a)	5. ((b) 6.	(c)	7. (b)	8. (a)	9. (b) 10. (c)			
11. (a)	12. (a)	13. (c)	14. (b)	15.	(c) 16	(d)	17. (a)	18. (c)	19. (d) 20. (c)			
21. (c)	22. (a)	23. (d)	24. (b)	25.	(a) 26.	(b)	27. (a)	28. (c)	29. (a) 30. (a)			
31. (d)	·	33. (a)	34. (c)	35.	• •	(a)	37. (a)	38. (d)	39. (a) 40. (c)			
41. (a)		43. (b)	44. (b)	45.		(b)	47. (a)	48. (a)	49. (c) 50. (a)			
S. S.					• •		57. (a)	58. (a)	59. (a) 60. (b)			
21. (d)	51. (a) 52. (b) 53. (b) 54. (c) 55. (d) 56. (c) 57. (a) 58. (a) 59. (a) $60.$ (b)											

4 – Percentage

A fraction whose denominator is 100 is called a percentage, and the numerator of the fraction is alled the rate percent.

SOLVED EXAMPLES

Example 1: A candidate got 20% of the total marks and failed by 18 marks. Another candidate who gets 32% of the total marks gets 42 marks more than are necessary for passing. Find the total umber of marks and passing marks.

folution:

Let the total number of marks = 100Marks secured by Ist candidate = 20

Marks secured by 2^{nd} candidate = 32

Difference between their marks = 32 - 20 = 12

Now Ist candidate fails by 18 marks while 2nd candidate gets 42 marks more than passing.

Difference between their marks (given) = 42 + 18 = 60

If difference between the marks is 12, total number of marks

= 100

If difference between marks is 60, total number of marks

$$=\frac{100}{12} \times 60 = 500$$

 $P_{assing marks} = 500 \times \frac{20}{100} + 18 = 118.$

Example 2: An examination is held in English and Arithmetic 60% of the students passed in English and 70% passed in Arithmetic. If 20% failed in both subjects and 581 students passed in both, find how many students appeared in the examination.

both, man	ow many students appende
Solution.	Let total number of students = 100
	Number of students passing in $English = 60$
	Number of students failing in $English = 40$
· · · · · · · · · · · · · · · · · · ·	Number of students failing in Arithmetic = 30
	Number of students failing in both subjects $= 20$
	Number of students failing in English only = $40 - 20 = 20$
Nur	nber of students failing in Arithmetic only = $30 - 20 = 10$

Total number of students who failed = 20 + 20 + 10 = 50

Number of students passing both the subjects = 100 - 50 = 50

Thus, if 50 students pass, total number of students =100

if 581 students pass, total number of students

$$=\frac{100}{50}\times581=1162.$$

Example 3: The population of a town is 24,000 if the number of males were increased by 6% and that of females by 9%, the population would be 25620. Find the number of each sex in the town. Solution:

Original population = 24000

Increased population = 25620

Increased in mixed population

= 25620 - 24000 = 1620Male 6% Female 9% 27% 4 4

Percentage of increase in mixed population

$$=\frac{1620}{24000}\times100=\frac{27}{4}\%$$

Increase in male population = 6%Increase in female population = 9%Applying the rule of Alligation, we find the ratio between males and females is 3:

Number the males in the town

1.

$$=24000 \times \frac{3}{4} = 18000.$$

Number of females in the town

= 24000 - 18000 = 6000.

Example 4: An increase of 25% in price of mangoes compels a person to buy 40 mangoes less for Rs. 20. Find the increased price of mangoes per dozen and also find the price before rise.

Solution: Let the original price = Rs. 100

Increase in price = Rs. 25

If the original price is Rs. 100, increase in price = Rs. 25

If the original price is Rs. 20, increase in price

$$=\frac{25}{100} \times 20 = \text{Rs. 5}$$

Increased price of 40 mangoes = Rs. 5

Increased price of 12 mangoes = $\frac{5}{40} \times 12 = \text{Rs.1.50}$

If the increased price is Rs. 1.50, the actual price.

$$=\frac{100}{125}\times 1.50$$
 = Rs.120.

Example 5: 10% of the salary of an officer is deducted as house rent. He spends 15% of the remainder on the education of his children. He spend 10% of the remainder on clothes. After this he is left with Rs. 344.25, find his salary.

Solution: Let the monthly salary of the officer = Rs. 100

House rent deduction = Rs. 10

Balance after deduction = Rs. (100 - 10) = Rs. 90 Money spent on education of children

$$= \frac{15}{100} \times 90 = \text{Rs.} \frac{27}{2}$$

Balance=Rs. $\left(90 - \frac{27}{2}\right) = \text{Rs.} \frac{153}{2}$

Money spent on clothes = 10% of Rs. $\frac{153}{2}$

$$= \frac{153}{20}$$
Net balance = Rs. $\left(\frac{153}{2} - \frac{153}{20}\right)$

$$= \frac{1377}{20}$$

If net balance is Rs. $\frac{1377}{20}$, his total salary = Rs.100 If net balance is Rs. 344.25 his total salary

$$=\frac{100\times20}{1377}\times\frac{1377}{4}=\text{Rs.500}$$

Example 6: During the first year the population of a town increased by 4% and during the second year it diminished by 4%. If at the end of the second year its population was 24960, what was its population at the beginning of first year.

Solution: Let the population in the beginning of the first year = 100

Then the population at the end of first year = 104

Population at the end of second year

$$=104 \times \frac{96}{100} = \frac{104 \times 24}{25}$$

When the population is $\frac{104 \times 24}{25}$ at the end of the second

year in the beginning of the first year, it was = 100

When it is 24960 at the end of the second year, in the beginning of the first year

$$=\frac{100\times25\times24960}{104\times24}=25000$$

MCQs									
1.	32% of 25 is								
2.	(a) 6 Express 65% as 9 fr	(b) action		(c)	8	(d)	9		
	(a) $\frac{100}{65}$	(b)	$\frac{65}{10}$	(c) (65×100	(d) $\frac{10}{65}$			
3.	A man saves 11% of	f his tot	al income of I	0. 11		65			
		<i>(</i> 1)	- 100	13. 14	ou. He spends				
	(a) Rs. 137.50 p above	(b)	Rs. $\frac{100}{11 \times 1250}$	(c)	Rs. 1112.50 p	(d)	None of the		
4.	Express 19.66% in d	ecimal	s			(-)	Trone of		
5.	(a) 19.66 Reduce 0.0003 to per	(b)	1.966	(c)	0.1966	(d)	0.01966		
	(a) 0.03% 5	(b)	0.003%	(c)	0.0003%	(d)	0.3%		
•	Convert 16 into per								
•	125% f Rs. 120 is	cent (b)	31.25%	(c)	312.5%	(d)	0.3125%		
	(a) Rs. 96 (d) None of the st	(b) ⁄e	Rs. 30	(c)	Do 150	0.000	0.512570		
	In a class, there are 3 (a) 40% (d) None of the above	0 boys	and 20 girls. 50%	The (c)	percentage of the 60%	girls is			

Dec	ic Mathematics/Ari	thmeti	c's				347
_	In x% of 144 is 9, th	ien the	value of x is				
9.	(a) $\frac{33}{8}$		16	(c)	$\frac{41}{2}$	(d) -	<u>25</u> 4
10.	In a school 575 of	625 sti	udents went	to a p	oienie. What po	ercent did	not attend the
	picnic? (a) 8%	(b)	45%	(c)	75%	(d)	92%
11.	What per cent of 64		64		6424		C A
	(a) $\frac{64}{24}$	(b)	$\frac{04}{24} \times 100$	(c)	$\frac{04 \times 24}{100}$	(d) -	$\frac{64}{24} \times 100$
12.	Adding 6% of y to y						
	(a) .94		.06		1.06	(d)	6 his colory door
13.	Sohail earns Rs. 52 he save?	0 and s	spends Rs. 4	559 a r	nonth. What p		
	(a) 4.55%		5.20%	(c)	9.75%	(d)	12.50%
14.	If y exceeds x by 20	%, the	n what per co	ent less	than y is x?		
	(a) $16\frac{2}{3}\%$	(1)	000/				
	$\binom{a}{3}^{10-\%}$	(b)	80%	(c)	20%	(d)	120%
	1		¥1				
	$12\frac{1}{2}$	%	money and	after s	spending 70%	of the rem	ainder has Rs.
15.	A man losses 2 210 left. How muc	oi nu b bad t	e at first?	anter			
			n 700	(c)	Rs. 800	(d)	Rs. 900
16.					f which 13% 9	re bad. Sh	le gives /5% 01
-01		hority	9 חת וחכם אפי			(d)	1800
	(a) 1044	(b)	1200	(c)	1500	ease is r%	. What will be
17.	The original popula	tion of	a town is A	, and .			
	the population in r (a) $X + \frac{3r}{100}$	years'	?		$(r)^n$		$(\mathbf{r})^n$
	3r		3r	(c)	$X\left[1+\frac{1}{100}\right]$	(d) 2	$x(1-\frac{1}{100})$
	(a) $X + \frac{31}{100}$	(b) .	$x - \frac{100}{100}$	el di	(100)	cont a hai	ise holder must
18.	(a) $X + \frac{100}{100}$ If the price of sugar	he rais	ed by 20% f	ind by	how much per	cent a not	
	If the price of sugar reduce his consum	ntion s	o as not to in	crease	his expenditur		1 0/
		-ichild	2.	(c)	$12\frac{3}{2}\%$	(d) 8	3
	reduce his consum (a) 20%	·(b) 1	6-%	(•)	4		te who gets 220
19,							
	(a) 20% In an examination a marks fails by 11 n (a) 600	candid narks. V	What is the	maxim	um number of	(d)	900
20.	(a) 600	(b)	700	(C)	50 per cent m	ore than a	third number
-0,	marks fails by 11 n (a) 600 Two numbers are re Which percentage	spectiv	ely 20 per c	ent and	100 1		65%
		15 the h		(c)	70%	(a)	65%
	(a) 80%	(b)	75%				
2	96. a 1. a	1.					

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		540			Decic M	athematics	/Arithme	tic's
34	8 A person had a c					Lie old	set con. su	"/o of +1
	A person had a c remaining he g	certain s	um of mo	ney. He ga	ve 20% 01	he gave in	a school	for poor
21.	A person nad a s	ave to h	is wife. 1	0% of the	remaining	, -		
	remaining he g boys, still he ha	d Rs. 50	4. His tota	al sum is	Rs.1500	(0	l) Rs. 1	000
	(a) $B_{s} 2000$	(b)	Rs. 18	00 (c)			marks fa	ils by 75
	boys, still he ha (a) Rs. 2000 In an examination marks but an	on, a can	didate wł	10 secures	25/0 01 of	the maxim	um mark	s gets 10
22.	marks but an	other ca	ndidate v	who secure	ormine the	maximum	numbers.	
	In an examination marks but an marks more that	an necess	sary for pa	assing. Det	500	(0	l) 100	
	(a) = 300	(b)	400	(c)	500	and the pr	esent pop	ulation is
	marks more that (a) 300 The annual decr	ease in t	he popula	tion of a t	own 15 570			
23.	6859. 3 years ag	on the po	pulation v	vas	7(01	(0	l) 8000	1
					7681	r the nopul	ation incr	eased by
	(a) 7000 . The population (10%. During so	of a villa	ge is 800.	During th	e first year	20% The	populatio	n after :
24.	. The population of	ocond ve	ar the pop	oulation in	creased by	2070. 1		
	10%. During s	econa je				(d) 1200)
	years is	(h)	948	(c)	1056	(C	out he los	es by 16
	(a) 872 (a) an election, or	o of the	two candi	dates gets -	40% of the	total vole	Jut ne los	
25	votes. The total	number	of votes is	6		11) 800	
	votes. The total	(b)	620	(c)	730	(d		otes an
	(a) 540 In an election 49		- and are	invalid. A	candidate	e gets 55%	of total	0105 41
26	. In an election 4% wins the election	- by 120	votes The	total num	ber of vote	es cast is		
	wins the election	(b)	2500	(c)	3000	(d) 4000	
	() 2000							- A IC IP
	(a) 2000	(0)/	a than the	at of B. the	n by what	percentage	B's inco	me is ics
27	(a) 2000 If A's income is 1	10% mor	e than tha	at of B, the	n by what	percentage	B's inco	me is ics
27	(a) 2000 If A's income is 1 than that of A	10% mor	e than tha	at of B, the	5 E		4	me is its
27	(a) 2000 If A's income is 1 than that of A	10% mor	e than tha	at of B, the	5 E		B's inco 1) 7 ¹ / ₉ %	me is ic.
27	than that of A	(0% mor (b)	e than that $9\frac{1}{11}\%$	at of B, the	$8\frac{3}{4}\%$. (0	1) $7\frac{1}{9}\%$	
	than that of A	(0% mor (b)	e than that $9\frac{1}{11}\%$	at of B, the	$8\frac{3}{4}\%$. (0	1) $7\frac{1}{9}\%$	
27 28.	(a) 10% (b) 10%	(0% mor (b) re respe	e than that $9\frac{1}{11}\%$ ctively 5%	at of B, the (c) % and 10	$8\frac{3}{4}\%$. (0	1) $7\frac{1}{9}\%$	
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P. 1

Bash	U IVIA	750/	f a numb										349
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		200	()	b) 3	00		(c)	400		(d)	. 800	
25	A ma	n calcu	late that if	he car	n let h	nis h	OUSe	for	· Re 8	0 nor m	(u)	000 will com 71	1
35.	ann	um on	his outlay	on the	e hous	se a	fter a	llo	wing t	he cost	of repair	s Actually	ho is
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37.	Find	l (corre	ect to two d	lecima	ils pla	ices)	the	per	centag	ge of			
			s, having giv										
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38	. The	e price	of sugar inc	rease	d by 1	0%	Byv	vha	t perc	entage s	hould its	consumption	on be
50	re	educed s	so that the e	xpens	es on :	suga	r ma	y re	emain	the sam	е.		
		1	þ	•	1		,		- 1 o/		(\mathbf{d})	$6\frac{1}{6}$ %	
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20		11		V . C 41		aid	atos f	ail i	n Eng	lish and	42% fail	in Math. If	17%
5	9. In	an exan	th subjects,	find t	he nei	rcen	tage (of c	andida	tes who	pass in b	oth the sub	jects.
	(a)		in subjects	(b)	23%		Ű (c)	24%		(d)	25%	
	(4)	2270		(0)		AN	SWE	CRS	S				
-	-			1.						7. (c)	8. (a)	9. (d) 10.	(a)
	· · (c)	2. (b)		4	(c)). 15					18. (b)	19. (b) 20	
	11. (b)	12. (c)			(a)	15.	(d)	26	. (c)		28. (a)	29. (b) 30). (c)
	21. (a)	22. (c		12770	(c)	25.	(a)		. (a)		38. (a)	39. (b)	
-	31. (b)								=				
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		100	= 0.1966								÷		
	6.	$\frac{5}{16} \times 10$	00 = 31.25%	,									
	~	100											
	7.	125 ×	120 = Rs.15	0 ,								e 2 - 2	
1.	8.									1.1.52			
		Total s	tudents $= 30$	+ 20 =	= 50				1.	1.1 11-0			

so, % of girls =
$$\frac{20}{50} \times 100 = 40\%$$

9. $\frac{x}{100} \times 144 = 9$, $x = \frac{900}{1.44} = \frac{25}{4}$
13. Total salary = Rs. 520
Money spend = Rs. 455
Money saved = 520 - 455 = Rs. 65
% of salary he saves
 $= \frac{65}{520} \times 100 = 12.50\%$
18. Suppose consumption of sugar = 100 kgs
Let then price per kg of sugar be = Re 1
Then amount of expenditure = Rs. 100
Increased price of 100 kgs of sugar = Rs. 120
Now, we have to purchase sugar worth Rs. 100@ Rs. 120 per
100 kg so, $\frac{100}{120} \times 100 = 83\frac{1}{3}$ kgs of sugar
Hence to keep the expense same,
 $= 100 - 83\frac{1}{3} = 16\frac{2}{3}\%$
19. Total pass marks = 220 + 11 = 231
33% pass marks = 220 + 11 = 231
33% pass marks = 231
Max. marks = $\frac{100}{33} \times 231 = 700$
22. $\frac{25}{100} + 75 = \frac{42}{100} - 10$
 $85 = \frac{42}{100} - \frac{25}{100}$
 $85 = \frac{17}{100}$ of max imum marks
Maximum marks = $\frac{100}{17} \times 85 = 500$
24. Ist year = $\frac{110}{100} \times 800 = 880$
IInd year = $\frac{120}{100} \times 880 = 1056$
27. Let B's Income = Rs. 100
Then A's income = Rs. 110
It mean B earn = Rs. 10 less than A

i i

When 'A' earns Rs. 110, then B earns Rs. 10 less When A earns Rs. 100, B earns

$$=\frac{90}{110} \times 100$$
$$=9\frac{1}{11}\%$$

5 – Profit and Loss

Profit: When an article is sold for more than it cost, we say there is profit or gain. Loss: When an article is sold for less than it cost, we say there is loss.

Some Formulae

Profit = Selling price - Cost price Loss = Cost price – Selling price Cost price = Selling price - profit Selling price = cost price - Loss.

Important Points

1. Profit or loss per cent is calculated on the cost price of the articles.

2. Profit or loss% =
$$\frac{\text{Total profit or loss}}{\text{Cost price}} \times 100$$

Solved Examples

Example 1: Find SP, if CP = Rs. 26, Profit = 15%Solution CP = Rs. 26Profit = 15%SP = ? $P = \frac{CP \times (100 + Pr ofit\%)}{100}$ $=\frac{26\times(100+15)}{100} = \text{Rs.}29.60$ Example 2: SP = Rs. 212.80, Loss = $12\frac{1}{2}\%$, find CP. a Not guieoffe toffe

Solution:

SP = 212.50
Loss =
$$12\frac{1}{2}\%$$

CP = $\frac{SP \times 100}{100 - Loss\%}$

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52						Dasie ma		Sector S
		$=\frac{212.80}{100}$	×100					
		- 100 -	25					
		100	2					
		= Rs. 243.	.20		1			
Cxar	nple 3:	If $CP = Rs$	s. 65, SI	P = Rs. 70, fir	nd prof	it or loss%		
	tion.	Profit = SI						
		= 70 - 65	= Rs. 5					
		Profit%	Profi	it ×100				
		Promt%	=(CP				
		•	5	0				
		=	$\frac{3}{65} \times 10$	$00 = 7\frac{9}{13}\%$				
				M	CQs			
1.	A retai	iler buys a 1	radio fo	or Rs. 215. H	is over	head expense	es are Rs.	25. If he sells the
		for Rs. 300	, his pro	ofit will be				
	· /	0%		25%			• •	43.6%
2.				Sand The I Strengthered		in of 10%, its		
		s. 360	(b)		(c)		. ,	Rs. 450
3.		-				oss of 12%. It		
	(a) R above	s. 580.80	(b)	Rs. 750.00	(c)	Rs.759.20	(d)	None of th
4.						one he gains	10% and	on the other he
				oss per cent is				
_	(a) N	o loss no gai	n (b)	1% gain	(c)	1% loss	(d)	2% loss
5.	By selli sell so	ng oranges as to gain 2	at 32 fo 20%?	or a rupee, a	man lo	st 40%. How	many for	a rupee must he
	(a) 16		(b)	19	(c)		(d)	25
.	By selli	ng 200 oran	ges, a m	nan gains the	selling	price of 40 of	rgans. His	gain percent is
	(a) 22	%	(b)	24%	(c)	25%	(d)	26%
	A deale	r for horses	sold tw	o horses for	Rs. 50	0 each. On on	o of theme	he lost 10% and
	on the	other he ga	ined 10	%. The perce	entage	of his loss or	agin is	
	(a) 1% gain	6 loss	(b)	1% gain	(c)	2% loss	(d)	Neither loss nor
3.	•	(eener gains	2004	fton allow!	100/	22.00 A (X)/2		
	his gai	n per cent if	f he allo	ws 20% disc	, 10%	discount on t	he list price	ce. What will be
	Ũ	•	, no ano	13 20 /0 uisco				
	(-) 00/				(c)6	$\frac{2}{3}\%$	(d)	$5\frac{3}{4}\%$
	(a) 8%		(b)	7%			(u)	4 ame
66	goods :	ng goods at at Rs. 35. th	Rs. 31, e perce	, a merchant ntage of profi	loses	7% on his or	utlay. If he	e sells the same
	(a) 6%	profit	(h)	cov 1	it or lo	ss is		
0.	A sells a	n article to	Batad	rain of 200/ .	D	5% profit to C at a gai		5% loss and C sells to D
			- 11 CUSE	5 A KS. 50; W	nat do	es D pay for it	t?	·

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a	ic Mathematics/A	munneue s				
Bas	(.) KS. 10-	· /		Rs. 104	(1)	353
-	hicycle is solu a	at 20% profit, i	f it had been	sold at 20%	(d) Rs. 105 loss, the selling price	
11.	have been	00 less. The cost	price of the	bicycle is	b loss, the selling price	would
	(a) Rs.280	(b) Rs.2	70 (c)	Rs.260	(d) Rs.250	
	By selling a norse	for Rs. 75 a m	an would los	ss 4%. For w	what amount should he	a coll !4
12.	to gain 40.				and amount should he	e sen n
	(a) Rs. 110	(b) Rs. 1	15 (c)	Rs. 120	(d) Rs. 125	
13.	A man sold articl	e at a gain of 1	6%. If he ha	ad sold it for	Rs. 16 more he woul	d have
15.	gained 20%. Th	e cost price of the	he article is			
	(a) Rs. 400		05 (c)		(d) Rs. 415	
14.	A brought a radio	and spent Rs.	110 on its re	pairs. He the	en sold it to B at 20%	profit,
	B sold to C at a	loss of 10%. C	sold it for R	s. 1188 at a	profit of 10%. A boug	ht the
	radio for				-	
	(a) Rs. 900	(b) Rs. 8		Rs. 880	(d) Rs. 875	• • • •
15.					The agents wholesale	
				•	retails his goods at a shop for Rs. 14.85 is	prom
	(a) Rs. 12.60	-	1.20 (c)		(d) Rs. 9.30	
16.					. 56.25 more he would	have
10.		e cost price of th				-
	(a) Rs. 415	(b) Rs. 3	95 (c)	Rs. 375	(d) Rs. 355	
17.	A trademan's pr	ices are 25% a	above cost p	rice, but he	allows his customer	12%
	commission on t	he amounts of t	heir bills. He	makes a pro	fit of	
-	(a) 9%	(b) 10%	(c)	11%	(d) 12%	bluov
18.	A horse was sold	at a loss of 10	per cent, if it	was sold iol	r Rs. 70 more, there v	rouid
	have been a gain	of 40%. The ho	orse was bou	$\frac{150}{2}$	(d) Rs. 125	
19.	(a) Rs. 140		40 (c)	ice of certail	articles and yet ma	kes a
19.	A dealer allows 1	0% discount of	he cost price	of an article	whose listed price is F	ls. 50
	will be	each article. If	le cost price			
	() -	(b) Rs. 39	9.15 (c)	Rs. 37.85	(d) Rs. 36.00	.,
20.				hich would g	ive him a profit of 200 desman makes a dedu	o on otion
	the cost price. If	the customer Da	ays cash, how	vever the tra	desman makes a dedu ceived from the sale of	of an
	UI 5% from the	market nrice.	find the action	im pre-	ceived from the sale of	
	at ticle for which	the tradesman	s pain is. 20		(d) Rs. 4.25	
21	(a) Rs. 2.75	(b) Rs. 3.0	00 (c)	Rs. 3.50	allows his customers	10%
	A tradesman mar	ks his good at	25% above	CP. II ne	allows his customers	
1	discount, how mi	ich% profit doe	s he make:	1000	(d) 12.20%	
22.	(a) 12.50%.	(b) 13.60 ⁹	% (C)	ald it for Rs.	56.25 more he would	nave
	gained too	tch at a loss of 5	%. Had ne s	ond it is	56.25 more he would	
25	gained 10%. Find (a) 375	d the cost price of	of watch.	175	(d) 475	rofit
23.	A person purch	(b) 2/5	carriage for	Rs. 1800. H	t was $2.5^{5/6}$ %.	
	A person purchase of 20% and the c	a a norse and a	fit of 30%. H	lis total profi	[was 2.5	
<i></i>	-u the C	arriage at a pro		1.12		

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	(a) 650 (b) 950 (c) 850 (d) 750
24	(a) 050 B and 10% dearer than C. How much would
24.	
	customer of B save by purchasing KS. For ward d (a) $22\frac{2}{9}$ (b) $21\frac{4}{9}$ (c) $23\frac{2}{9}$ (d) $27\frac{2}{6}$
	A tradesman marks his goods 25% above cost price. If he allows his customer 10%
25.	l'account how much % profil dues ne marce
	(a) $12-\%$ (b) $14-\%$ (c) 2
	2 should a shopkeeper mark his goods so that
26.	
	after allowing a discount of 1272 he should have 3 (d) 21% (a) 18% (b) 20% (c) 19% (d) 21%
27.	(a) 1070 in that he can deduct $12\frac{1}{2}$ %, for cash and yet
21.	make 20% profit. What is the marked price of an article of the price of the market pri
	() D 100 $() $ $() $ D $() $ D $() $ $() $ $() $ $()$
28.	A man colls an article at a profit of 20%. If he had bought it at 20% less and solu it
	for Rs. 5 less, he would have gained 25%. Find the Cr of the article.
	(a) Rs. 25 (b) Rs. 30 (c) Rs. 40 (d) Rs. 50
	ANSWERS
 1	(1) 2 (1) 2 (1) 4 (2) 5 (2) 6 (2) 7 (2) 8 (2) 9 (2) 10 (d)
1.	(b)2. (c)3. (b)4 (c)5. (a)6. (c)7. (a)8. (c)9. (c)10. (d)(d)12. (d)13. (a)14. (b)15. (c)16. (c)17. (b)18. (a)19. (d)20. (c)
21	(a) $22.$ (a) $23.$ (d) $24.$ (a) $25.$ (a) $26.$ (b) $27.$ (a) $28.$ (a)
21.	(a) 22. (a) 23. (a) 24. (a) 25. (a) 20. (b) 27. (a) 26. (a) = = = = = = = = = = = = = = = = = = =
	EXPLANATION OF SOME DIFFICULT QUESTIONS
1.	Profit = 300 - (215 + 25) = Rs. 60
	$Profit\% = \frac{60}{240} \times 100 = 25\%$
2.	SP = CP + Profit
2.	
	Profit% =10%, so $\frac{110}{100} \times 400 = 440$
3.	SP = Rs. 440. Let CP be x
5.	
	$So, \frac{88}{100}$ of x = 660, x = Rs.750.00
7	
7,	Total SP = Rs. $500 + Rs. 500 = Rs. 1000$
	Total CP = $\frac{100}{90} \times 500 + \frac{100}{110} \times 500 = \text{Rs.}1010.0$
	$90^{-500} + \frac{110}{110} \times 500 = \text{Rs.}1010.0$
	Loss = 1010 - 1000 = Rs. 10
	$Loss\% = \frac{10}{1000} \times 100 = 1\% loss$

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Basic IVIa Let CP of the goods be 100 Loss = 7%SP = Rs. 3 $CP = \frac{100}{93} \times 31 = \frac{100}{3}$ SP = Rs. 35 $Profit = 35 - \frac{100}{2}$ $=\frac{105-100}{2}=\frac{5}{2}$ $Profit\% = \frac{5}{3} \times \frac{3}{100} \times 100 = 5\%$ Let the CP be Rs. 100. 13. Profit = 16%SP = Rs. 116In second case, he gains a profit of 20% SP in the second case = Rs. 120Difference in SP = 120 - 116 = Rs. 4When the difference in SP's is Rs. 4, CP = Rs. 100When the difference in SP's is Rs. 16, $CP = Rs. \frac{100}{4} \times 16 = Rs. 400$ 14. Suppose, CP of the manufacturer = Rs. 100Profit = 20%, manufacturer's SP = Rs. 120 Whole sealer dealer's CP = Rs. 120Profit = 10% of 120 $SP = \frac{110}{100} \times 120 = Rs.132$ Retailer's CP = 132Retailer's profit = $\frac{25}{2}$ % of 132 $=\frac{25}{2}\times\frac{1}{100}\times132=\frac{33}{2}$ Retailer SP = Rs. 132 + $\frac{33}{2}$ = Rs. $\frac{299}{2}$

9.

Shopkeeper CP = Rs. $\frac{297}{2}$ Manufacturer's CP = Rs. 100

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$$CP = \frac{100}{297} \times 2 \times 14.85 = Rs.10$$

6 - Simple Interest and Compound Interest

Simple Interest

Amount = Principal + Interest Principal × Time × Rate Simple Interest =100 $Principal = \frac{SimpleInterest \times 100}{2}$

:

Rate× Time

 $Time = \frac{Simple Interest \times 100}{Simple Interest \times 100}$ Principal× Rate

Rate = $\frac{\text{Simple Interest} \times 100}{\text{Simple Interest} \times 100}$

Principal×Time

Amount×100 Principal=- $100 + (Rate \times Time)$

Compound Interest

Amount = Principal
$$\left[1 + \frac{\text{Rate}}{100}\right]^{\text{time}}$$

Principal = Amount $\div \left[1 + \frac{\text{Rate}}{100}\right]^{\text{time}}$

$$\frac{\text{Amount}}{\text{Principal}} = \left[1 + \frac{\text{Rate}}{100}\right]^{\text{time}}$$

Compound Interest = Amount
$$\left[\left(1 + \frac{\text{Rate}}{100} \right)^{\text{time}} - 1 \right]$$

Solved Examples

Example 1: A person invested Rs. 800 at certain rate% and Rs. 700 at 1% higher and the tota interest from these investments in 4 years was Rs. 238. Find the rate per cent. Solution: Case I. Principal = Rs. 800

Let rate = x%Time = 4 years $\frac{300 \times x \times 4}{100} = 32x$ Simple Interest = Case II, Principal = Rs. 700 Rat = (x+1) %

...

Time = 4 years $700 \times (x+1) \times 4$ Simple Interest = -= 28x + 2832x + 28x + 28 = 238 (given) 60x = 210 $x = 3\frac{1}{2}$ Hence the rate is $3\frac{1}{2}\%$

Example 2: A sum of Rs. 2500 amounts to Rs. 2700 in 2 years at simple interest. What sum of money will amount to Rs. 2240 in 3 years at the same rate?

Solution. Case I. Principal = Rs. 2500 Amount = Rs. 2700Simple Interest = Rs. (2700 - 2500) = Rs. 200Time = 2 years Rate = $\frac{200 \times 100}{2500 \times 2} = 4\%$ Case II. Let Principal = 100 Rate = 4%Time = 3 years Simple Interest = $\frac{100 \times 4 \times 3}{100}$ = Rs.12 Amount = Rs. (100 + 12) = Rs. 112If the amount is Rs. 112, the principal = Rs. 100 . If the amount is Rs. 2240, the principal

$$=\frac{100}{112} \times 2240$$

= Rs. 2000 Example 3: The compound interest on a sum of money for 2 years at 5% is Rs. 328. Find the simple interest on a sum of money for 2 years at 5% is Rs. 328. simple interest. Solution.

Let Principal = Rs. 100

Rate =
$$5\%$$

Time = 2 years

Amount at compound interest

$$=100\left(1+\frac{5}{100}\right)^{2}$$
$$=100\times\frac{105}{100}\times\frac{105}{100}$$

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= Rs.
$$\frac{441}{4}$$

Compound Interest = Amount – Principal

-

$$=\frac{441}{4}-100 = \text{Rs.}\frac{41}{4}$$

If compound interest is Rs $\frac{41}{4}$ then principal = Rs. 100

If compound interest is Rs. 328, then principal

$$=100 \times \frac{4}{14} \times 398 = \text{Rs.}3200$$

 $\frac{3200 \times 2 \times 5}{100}$ Simple interest =

= Rs. 320

Example 4: A man borrows a certain sum and pays it back in two years in two equa installments. If compound interest is reckoned at 4 per cent and if he pays back annually Rs. 676. what sum did he borrow?

Solution:

n: Amount paid at the end of first year = Rs. 676
Amount = Rs. 676
Rat = 4%
Time = 1 year
Principal=Amount÷
$$\left(1 + \frac{\text{Rate}}{100}\right)^{\text{time}}$$

= $676 \div \left(1 + \frac{4}{100}\right)^{1}$
= $\frac{676 \times 100}{104}$ = Rs.650
Amount paid at the end of second year = Rs. 676
Amount = Rs. 676
Rate = 4%
Time = 2 years
Principal = $676 \div \left(1 + \frac{4}{100}\right)^{1}$
= $676 \times \frac{100}{104} \times \frac{100}{104}$
= Rs. 625
Time sum borrowed = $650 + \text{Rs. } 625$
= Rs. 1275

-		MO	CQs 337					
-	Simple Interest is ca	alculated as						
1.	(a) Simple Interest =	$=\frac{\text{Principal} \times \text{Time}}{\text{Rate} \times 100}$	(b) Simple Interest = $\frac{Principal \times Rate}{Time \times 100}$					
	(c) Simple Interest	$=\frac{\text{Principal} \times \text{Time}}{100}$	(d) Simple Interest = $\frac{100 + (Rate \times Time)}{Principal \times 100}$					
	(e) Simple Interest	$=\frac{\text{Principal} \times \text{Rate}}{100}$	× Time)					
2.	The simple interest o	on Rs. 1240 for 3 yes						
3.			t to Rs. 3500 at 5% simple interest?					
	(a) $2\frac{2}{3}$ years	(b) $2\frac{7}{9}$ years	(c) $3\frac{1}{3}$ years (d) $4\frac{5}{9}$ years					
4.	Rs. 5000 will amount	t to Rs. 5400 at 2.4%	6 simple interest in					
	(a) $4\frac{2}{3}$ years	(b) $3\frac{7}{3}$ years	(c) $3\frac{1}{3}$ years (d) $2\frac{5}{8}$ years					
5.	How much money lent out at 5% per annum simple interest will amount to Rs. 27							
34.C	in 5 years?	(b) Rs. 1870						
6.	(a) Rs. 1730 In how many years	s will a sum of m	oney become double of itself at 5% simple					
	interest?		(1) 25 years					
25.10	(a) 15 years	(b) 17 years	(c) 20 years (d) 25 years					
7.	At what rate% simp	le interest will a sui	n of money double itself in 10 years? (c) 9% (d) 10%					
8.	(a) 7%	(b) 8%	all more on simple interest. What sum of					
ч, Э	money will amour	it to Rs. 695.50 P						
		(b) Rs.645	(c) Rs. 650 (d) Rs. 655					
9.	(a) Rs. 640 (b) Rs. 645 (c) Rs. 650 A sum of money at simple interest amounts to Rs. 2800 in two years and to Rs. 3250							
	in 5 years. The rate	e of interest is	(d) 8%					
10.	(a) 5%	(b) 6%	for 8 months at 4% is Rs. 129 less than the					
	 (a) 5% (b) 6% (c) 7% (c) 7							
	(a) Rs. 3280	(b) Rs. 3340	(c) Rs. 3490 (d) Rs. 5000					
11.	AS. 5260		9 16. On the principal, if the rate per cent and (d) 8½ years					
-1.	Simple interest on a	certain principal is	16. On the principality of the area					
	time are both equa	l, then time is	(c) 7 ¹ / ₂ years (d) 8 ¹ / ₂					
12,	A person lent Rs. 20	(b) 6 ¹ / ₂ years 000 to x, y and z. H	(c) 7 ¹ / ₂ years (d) 872 years (e lent Rs. 500 to x at 3%, Rs. 750 to y at 4% (a lent Rs. 500 to x at 3%, Rs. 750 to y at 4%) (came to 6%. What rate of interest did z pay? Scanned with CamScanner					
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	Basic Mathematics/Arithmetic's
360	(a) 0% (b) 10% (c) 11% (d) 12%
	(a) 9% (b) 10% (c) 11% (c) 11\%
13.	If Rs. 360 amount to Rs. 432 in a certain time this time is
	If Rs. 360 amount to Rs. 432 in a certain time is Rs. 621 in a year less at the same rate, then this time is (a) 2 years (b) 3 years (c) 4 years (d) 5 years (a) 2 years (b) 3 years (c) 4 years at 5% per annum. If the interest is
	(a) 2 years (b) 3 years (c) 4 years The compound interest on Rs. 1600 for 2 years at 5% per annum. If the interest i
14.	The compound interest on Rs. 1000 for 2 years
	compounded annually is (a) Rs. 160 (b) Rs. 162 (c) Rs. 164 (d) Rs. 166 (a) Rs. 160 (b) Rs. 162 (c) Rs. 164 (d) Rs. 166
	(a) Rs. 160 (b) Rs. 162 (c) Rs. 104 The compound interest on Rs. 400 for 1 ¹ / ₂ years at 10% per annum compounded half
15.	The compound interest on RS. 400 for 2029
	yearly is (a) Rs. 60.00 (b) Rs. 61.80 (c) Rs. 63.05 (d) Rs. 66.00 (a) Rs. 60.00 (c) Rs. 63.05 (d) Rs. 66.00
16.	The compound interest for Rs. 2000 at 476 component (d) Rs. 80.00 (a) Rs. 82.24 (b) Rs. 81.21 (c) Rs. 80.93 (d) Rs. 80.00
	ill amount to Rs 10404 In 1 year at 170 per unit
17.	as menounded half voorly?
	(b) $P_c = 10,316$ (c) $R_s = 10,200$ (d) $R_s = 10,200$
18.	$1 + n_{\rm e} = 3400$ in U monthly $41 + 0.70$ motor -1
10.	mantanly. The sum is
	(a) $R_s 2400.15$ (b) $R_s 2371.66$ (c) $R_s 2285.28$ (d) $R_s 2104.52$
19.	Rs. 800 amount to Rs. 986 in 2 years at compounded interest. The rate per annum is
	-(a) 8% (b) 9% (c) 10% (d) 11%
20.	In how many years will Rs. 8000 amount to Rs. 9261 at 5%
	(a) 1 year (b) 2 years (c) 3 years (d) 4 years
21.	The compound interest on a sum of money for 2 years at 10% is Rs. 168. The simple
	interest is (b) P_{2} (c) P_{2} 164 (d) P_{3} 166
	(a) Rs. 160 (b) Rs. 162 (c) Rs. 164 (d) Rs. 166 Simple interest on a cortain sum of manay for $2 \cos \alpha = 4.50$ (i.e. D. 150. The compound
22.	Simple interest on a certain sum of money for 3 yeas at 5% is Rs. 150. The compound interest will be
	(a) Rs. 157.62 (b) Rs. 158.46 (c) Rs. 160.38 (d) Rs. 161.67
23.	The difference between compound interest and simple interest on a sum of Rs. 2400
	for 2 years at 5% is
	(a) Rs. 4 (b) Rs. 5 (c) Rs. 6 (d) Rs. 7
24.	The difference between compound interest and simple interest on a sum of money 10th
	2 years at 5 % is Ks. 15. The sum is
25.	(a) Rs. 6342 (b) Rs. 6218 (c) Rs. 6100 (d) Rs. 6000
4.5.	If a sum of money amounts to Rs. 24.20 in 2 years and to Rs. 26.62 in 3 years at compound interest, then the sum is
	(a) D 20 (c)
26.	
	Simple interest on a sum of money for 2 years is Rs. 40 and the compound interest of the same sum at the same rate for the same time is Rs. 40.80. The rate percent is
his a	
27.	A man borrows a certain sum and new (0) 5.0 (d) 0.0
	compound interest is reckoned at 4% and if be pays back annually Rs. 676, what sum did he borrow?
	sum did he borrow? (a) Rs. 1250 (b) Re 1275
	(a) Rs. 1250 (b) Rs. 1275 (c) Rs. 1300 (d) Rs. 1325

noric Mathematics/Arithmetic's

Bas	sic Mathematics/Arithmetic's								
28.	²⁸ If the difference in the compound and simple interaction 361								
20.	the rate of 4% per annum is Re. 1, the sum is								
	(a) KS 000 (D) KS 675	()							
29.	A sum of money is borrowed and r	Noid L. I		(d)	Rs. 675				
27.	A sum of money is borrowed and p 882 allowing 5% compound intere	st. The su	m two equal	annual in:	stallments of Rs.				
	(a) Rs. 1620 (b) Rs 1630	(-)	D	3					
3Ò.	A man bui toweu some money every	VOON of 1	00/	(d)	Rs. 1650				
	years he pays Rs. 3641, how much (a) Rs. 1200 (b) Rs. 1100	money ha	d he however	d interest.	If at the end of 3				
31.	The unicience between the compon	nd intora	tand . I	(d)	Rs. 200				
	lent for two years at 10% is Rs. 40,	The sum	is and simple	interest on	a sum of money				
	(a) Rs. 6000 (b) Rs. 8000) (c)	De 5000	(1)	D				
32.	The simple interest on a sum equal 1	1/10 of its	It in A warman	(d)	Rs. 4000				
		10 01 1150	$\frac{1}{1}$						
	(a) $2\frac{1}{2}\%$ (b) $3\frac{1}{2}\%$	(c)	$4\frac{1}{6}\%$	(d)	$5\frac{1}{2}\%$				
			2	(4)	2				
33.	What sum on money will yield Rs. 17	4	·		и х				
55.	what sum on money will yield Rs. 17	5 as inter	est in 5	it 4% per a					
	(a) Rs. 89 (b), Rs. 90	(c)	Re Q1	(d)					
34.	In what time will Rs. 1250 amount to	Rs 1400	at 6% per an	(u)	KS. 92				
	(a) 2 years (b) 3 years	(c)	A years	(d)	5 years				
*	(-) -)								
35.	What sum will yield Rs. 406 as simpl	le interest	at 3-% for	7- vears					
			2 2 101	4 years					
36.	(a) Rs. 1000 (b) Rs. 1300) (c)	Rs. 1600	(d)	Rs. 1800				
50,	A sum of money at simple interest	amount t	o Rs. 2800 in	2 years an	nd Rs. 3250 in 5				
	fears. Find the sum and the rate of	interest.							
37.	(a) Rs. 2400, 3% (b) Rs. 2200),4% (c)	Rs. 2700,7%	(d)	Rs. 2500,6%				
	A sum of Rs. 16400 is borrowed	to be pai	d back in 2	years by	equal payments				
	""""""""""""""""""""""""""""""""""""""	ayment.							
/	(a) Rs. 7920 (b) Rs. 8820		Rs. 6920	(d)	Rs. 7960				
/		OWED	7						
1. (6		ISWER							
11. ((0) 3. (c) 4 (c) 5.	(d) 6.	(c) 7. (d)	8. (c)	9. (b) 10. (d)				
41. ((0) 13. (c) 14 (c) 15		(b) 17. (a)		19. (c) 20. (c)				
31. (⁽¹⁾ ²² . (a) 23 (a) 24 (1) 25	1	(a) 27. (b)	54607700-5	29. (c) 30. (c)				
	¹ ³ ¹	• •	(d) 37. (b)						
	===: (a) 54. (a) 55.	======	102 m		19 10124				
,	EXPLANATION OF SOL	ME DIE	FICULT O	UESTIO	NS				
1.	For		Time						
3.	F_{ormula} Simple Interest = $\frac{Princip}{A_{rm}}$	oal×Rate	1						
	Amount	100	5.00		n en				
	Amount = Principal + Interest, 3500 =	= 300=Inte	erest=Rs. 500,						

Time = $\frac{\text{S.I.} \times 100}{\text{P} \times \text{R}} = \frac{500 \times 100}{3000 \times 5} = 3\frac{1}{3}$ years. 4. Amount = Principal + Interest 5400 - 5000 =Interest = Rs. 500 $T = \frac{S.I. \times 100}{P \times R} = \frac{400 \times 100}{5000 \times 2.4} = 3\frac{1}{3}$ years. Principal = Amount - Interest, 5. $Principal = \frac{A \times 100}{100 + (R \times T)} = \frac{2700 \times 100}{100 + (5 \times 5)} = Rs.2160.$ Formula, S.I. = $\frac{P \times R \times T}{100} = \frac{1240 \times 5 \times 3}{100} = Rs.186.$ 7. 8. Principal = Rs. 1200, Amount = Rs. 1320, S.I. = 1320 - 1200 = Rs. 120, $Tim \frac{5}{2}$ year, Rate = $\frac{120 \times 100}{1200 \times 5}$ = 4% Let Principal = Rs. 100 Rate = 4%Time = $\frac{7}{4}$ %, S.I. = $\frac{100 \times 4 \times 7}{100 \times 4}$ = Rs.⁷ Amount = 100 + 7 = Rs. 107If amount is Rs. 695.50, Principal = Rs. 655. $Amount = P \left(1 + \frac{r}{100}\right)^n$ 14. Amount = $1600 \left(1 + \frac{5}{100}\right)^2$ Amount = Rs. 1764 Interest = Amount - Principal Interest = 1764 - 1600 = Rs. 164. 21. Let Principal = 100 Rate = 10%Time = 2 years Amount = $P\left(1 + \frac{r}{100}\right)^{r}$ = Rs.121C.I. = 121 - 100 = Rs. 21C.I. = Rs. 21.Then Principal = 100 If C.I. is Rs. 168, the Principal

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$$=100 \times \frac{1}{21} \times 168 = \text{Rs.800}$$

S.I. = $\frac{800 \times 2 \times 10}{100} = \text{Rs.160}$

27. Amount paid at the end of first year = Rs. 676

 $\therefore \qquad \text{Amount} = \text{Rs. 676} \\ \text{Rate} = 4\% \\ \text{Time} = 1 \text{ year} \end{cases}$

 $Principal = Amount \div \left(1 + \frac{R}{100}\right)^2$

$$= 676 \div \left(1 + \frac{4}{100}\right)^{1}$$

Amount paid at the end of second year = Rs. 676

$$R = 4\%$$

T = 2 years
$$P = 676 \div \left(1 + \frac{4}{100}\right)^2 = \text{Rs.625}$$

\n

Total sum borrowed = Rs. 650 + Rs. 625 = Rs. 1275. 20. Amount paid at the end of first year = Rs. 882

Amount = Rs. 882 Rate = 5% Time = 1 year

$$Principal = Amount \left(1 + \frac{r}{100}\right)$$

$$= 882 \div \left(1 + \frac{5}{100}\right)^{n}$$
$$= 882 \times \frac{100}{105} = \text{Rs.840}$$

Amount paid at the end of second year = Rs. 882 Amount = Rs. 882 Rate = 5% Time = 2 years Principal = Amount $\div \left(1 + \frac{r}{100}\right)^n$ = 882 $\div \left(\frac{105}{105}\right)^2$ $= 882 \times \frac{100}{105} \times \frac{100}{105} = \text{Rs.890}$

Total sum borrowed = Rs. 840 + .Rs. 800 = Rs. 1640.

7 – Time and Work

- 1. When it is required to complete the work of several agents, it is necessary first to ascertain the amount of work each can do in the same time.
- 2. If a person can do a piece of work in 8 days, it implies that he can do 8 work in one day.

Conversely, if a person can do 8 of the work in one day, it implies that he can do the whole work in 8 days.

- 3. The number of person required to finish a work is inversely proportional to the number of days in which the work is to be finished.
- 4. To do a certain piece of work, the ratio between the number of days taken by two different agents is the inverse ratio of the ratio between the rates of doing work and vice versa.

Solved Examples

Example 1: A can do a piece of work in 10 days, B in 15 days, they work together for 5 days. The rest of the work is finished by C in 2 days. If they get Rs. 150 for the whole work, how should they divide the money and what are their daily wages?

Solution: A's one day work = $\frac{1}{10}$ A's 5 days work = $\frac{5}{10} = \frac{1}{2}$ B's one day work = $\frac{1}{15}$ B'a days work = $\frac{5}{15} = \frac{1}{3}$ (A + B)'s 5 days work = $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$ Remaining work = $1 - \frac{5}{6} = \frac{1}{6}$ C's 2 days work = $\frac{1}{6}$ C's 1 days work = $\frac{1}{12}$

... C can finish the whole work in 12 days. Since A has completed half work, A's 5 days wages

$$=\frac{150}{2}$$
 = Rs.75

A's daily wages = Rs. 15 Similarly C's daily wages

$$=\frac{150}{6\times 2} = \text{Rs.12.50}$$

Example 2: A and B can do a piece of work in 20 days. B and C can do it in 30 days. A worked at it for 10 days and B worked at it for 15 days. C finished the remaining work in 7 days. How

long A, B and C will take to complete it separately? Solution:

$$(A+B)'s1day work = \frac{1}{20}$$

$$(B+C)'s1day work = \frac{1}{30}$$
Now A's 10 days work + B's 15 days work C's17 days work
=1 work
or (A + B)'s 10 days work + (B + C)'s 17 days work
"B's 12 days work = 1 work

 $\frac{10}{20} + \frac{17}{30} - B's12 days work = 1$

or

or

B's12 days work =
$$\frac{10}{20} + \frac{17}{30} - 1$$

$$=\frac{30-34-60}{60}=\frac{4}{60}$$
$$=\frac{1}{15}$$

B's1day work = $\frac{1}{15 \times 12} = \frac{1}{180}$

i.e., B can finish the whole work in 180 days. Similarly A can finish the whole work in

$$\frac{1}{\frac{1}{20} - \frac{1}{180}} = 22\frac{1}{2} \text{ days}$$

C can finish the whole work in

Example 3: 25 men are employed to do a piece of work they could finish in 20 days, but the men drop off 5 at the set of the set of work is completed? drop off 5 at the end of every 10 days. In what time will the work is completed?

365

Since 25 men in 20 days can do I work Solution: 25 men in l'day do $\frac{1}{20}$ work. *.*... In the first 10 days, 25 men will do $\frac{10}{20}$ i.e. $\frac{1}{2}$ work. Remaining work $= 1 - \frac{1}{2} = \frac{1}{2}$... At this stage 5 men drop Remaining men = 25 - 5 = 20... As 25 men in 1 day do $\frac{1}{20}$ work I man in 1 day does $\frac{1}{20 \times 25}$ work. ... 20 men in 1 day do ... $=\frac{20\times25}{.1\times20}$ $=\frac{1}{25}$ work In the next 10 days, $20 \,\mathrm{men}\,\mathrm{do} = \frac{10}{25} \,\mathrm{work} = \frac{2}{3}$ After doing work for 20 days ... Remaining work = $\frac{1}{2} - \frac{2}{5} = \frac{1}{10}$ At this stage 5 more men drop. Remaining number of men ... = 20 - 5 = 1515 men in 1 day do = $\frac{15}{25 \times 20}$ $\therefore \frac{15}{100}$ work is done by men in I work is done by 15 men $in\frac{500}{15} \times \frac{1}{10} = 3\frac{1}{3} days$ Total time in completing the work ... $= 10 + 10 + 3\frac{1}{3} = 23\frac{1}{3}$ days

Example 4: A cistern can be filled by one of the two pipes in 30 minutes and by the other in ³⁶ minutes. Both pipes or opened together for a certain time but being partially clogged, 5/6 of the

...

...

÷.

Basic full quartly of water flows through the former and only 9/10 through the latter. The obstructions, however, being suddenly removed, cistern is filled in $15\frac{1}{2}$ minutes from the moment. How long

was it before the full flow of water began?

Solution: Let the pipe which fills the cistern in 30 minutes be A and the pipe which fills the cistem in 36 minutes to B.

In I minute, pipe A fills 1/30 cistern and in 1 minute pipe B fills 1/36 cistern.

Thus in 1 minute, the two pipes A and B fill $\left(\frac{1}{30} + \frac{1}{36}\right)$

$$=\frac{11}{180}$$
cistern.

In 15¹/₂ minutes, the two pipes A and B fill ...

$$\left(\frac{1}{30} + \frac{1}{36}\right) = \frac{11}{180}$$
cistern.

In 15 ¹/₂ minutes, the two pipes A and B fill

$$\frac{11}{180} \times \frac{31}{2} = \frac{341}{360}$$
 cistern

Thus the cistern filled when the obstructions were removed

 $=1-\frac{341}{360}=\frac{19}{36}$ cistern

When the pipe A is clogged, only 5/6 of the full quantity of water flows.

In one minute A fills only cistern $\frac{5}{6} \times \frac{1}{30}$ cistern

$$=\frac{1}{36}$$
cistern.

Similarly pipe B when clogged fills in 1 minute only

$$\frac{9}{10} \times \frac{1}{36}$$
 cistern = $\frac{1}{40}$ cistern

Two pipes A and B clogged fill in 1 minute

$$=\left(\frac{1}{36}+\frac{1}{40}\right)=\frac{19}{360}$$
 cistern

 $\frac{19}{360}$ cistern is filled only in 1 minute.

Example 5: 6 men and 10 women reap 5/12 of a field of 360 bighas in 15 days, working 6 hours a day. For how we a day. For how many more days of 7 hours each must they work to reap the field, if 2 more men site employed and 4. Solution of the field of a f are employed and 4 of the women removed. It is known that 2 man do as much work at 3 women. Solution:

Since 2 men = 3 women

6 men + 10 women = 19 women. Similarly, in second case when 4 women are removed and 2 men are employed, total number of persons = 6 men + 10 women + 2 men - 4 women = 8

men + 6 women.

$$=\left(\frac{8\times3}{2}+6\right)$$
women

$$= 18$$
 women

These 18 women have to reap .

$$\left(1 - \frac{5}{12}\right) = \frac{7}{12}$$
 field

Now since 19 women working 6 hours a day, reap 5/12 field in = 15 days. 7 women working 1 hour daily reaps 7/12 field in

$$\frac{15 \times 19 \times 16 \times 12}{5} \text{ days}$$

18 women working 7 hours a day reap 7/12 field in

$$\frac{15 \times 19 \times 6 \times 12 \times 7}{19}$$
 19 days.

 $5 \times 18 \times 7 \times 12$ Example 6: A can do a piece of work in 26 days, B in 54 days and C in 72 days. All the three began the work together but A left 8 days and B 12 days before the completion of the work. How many days did C put in till the entire work was finished?

Solution: As a leaves 8 days and B 12 days before the completion of the work, the work is completed as follows.

C works alone for 8 days at the end 1.

2. C works with A for
$$(12 - 8) = 4$$
 days

And the remaining work is done by A, B and C together. 3.

C's8 days work =
$$8 \times \frac{1}{72} = \frac{1}{9}$$

(A + C)'s 4 days work

$$=\left(\frac{1}{36} + \frac{1}{72}\right) \times 4 = \frac{1}{6}$$

Total work done = $\frac{1}{9} + \frac{1}{6} = \frac{2+3}{18} = \frac{5}{18}$

Remaining Work = $1 - \frac{5}{18} = \frac{13}{18}$

(A + B + C)'s one day work

$$=\frac{1}{36}$$
 $+\frac{1}{54}$ $+\frac{1}{72}$ $=\frac{13}{216}$

Time taken by A + B + C to complete the remaining work

$$\left(\frac{13}{18}\right) = \frac{13}{18} \times \frac{216}{13} = 12 \text{ days.}$$

Total number of days put in by C = 12 + 4 + 8 = 24 days.

1

Example 7: A can do a piece of work in 16 days, and C in 30 days. All begin the work together, but A leaves the work after 4 days and B leaves before the work is finished. How long did the work last?

A's 1 day work Solution:

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$$= \frac{1}{16}$$

B's 1 day work
$$= \frac{1}{20}$$

C's 1 day work
$$= \frac{1}{30}$$

Since for first four days, all of them worked together.

(A + B + C)'s 4 days work

$$= \left(\frac{1}{16} + \frac{1}{20} + \frac{1}{30}\right) \times 4 = \frac{7}{12}$$

B leaves 4 days before the work is finished. This means that C worked alone for 4 days.

C's4dayswork =
$$\frac{4}{30} = \frac{2}{15}$$

Total work done during the first 4 and last 4 days

$$=\frac{7}{12} + \frac{2}{15} = \frac{43}{60}$$

Remaining work = $1 - \frac{43}{60} = \frac{17}{60}$

Now 17/60 work was done by B and C working together (B+C)'s 1 day work

orth fill as shall

$$=\frac{1}{20}+\frac{1}{30}=\frac{1}{12}$$

Time taken by (B + C) t o do 17/60 of the work

$$=\frac{17}{60} \div \frac{1}{12} = \frac{17}{60} \times 12$$
$$=\frac{17}{5} = 3\frac{2}{5}$$
 days.

The work lasted for

$$4+4+3\frac{2}{5}=11\frac{2}{5}$$
 days.

Example 8: Of either 5 men or 9 boys can do a piece of work in 38 days, in how many days can Bob and 7 hourse of 9 boys can do a piece as great? 13 men and 7 boys working together do a piece of work twice as great? Solution: Since 5 men = 9 boys

 $13 \operatorname{men} = \frac{9}{5} \times 13 = \frac{117}{5} \operatorname{boys}$ Now 13 men + 7 boys = $\left(\frac{117}{5} + 7\right)$ = $\frac{152}{5} \operatorname{boys}$

Number of days taken by 9 boys to finish the work = 38Number of days taken by 1 boy to finish the work = 38×9 Number of days taken by 152/2 boys to finish the work

$$=34 \times 9 \times \frac{5}{152} = \frac{45}{4}$$

Number of days taken by

$$=\frac{152}{2}$$
 boys to finish twice the work

$$=\frac{45\times2}{4}=\frac{45}{2}$$
days
= 22.5 days.

MCQs

1. A can do a piece of work in 30 days which B can do in 40 days. In how many days can A and B working together do it?

(a) 70 (b)
$$42\frac{3}{4}$$
 (c) $27\frac{1}{7}$ (d) $17\frac{1}{7}$

A can do a piece of work in 20 days which A and B together can do in 12 days. B alone can do it in
(a) 32
(b) 8
(c) 30
(b) 22

(a) 32
(b) 8
(c) 30
(d) 22
(d) 22
(e) 30
(f) 22
(f) 4ays. In how many days can be Finish the remaining work?
(a) 10 days
(b) 8 days
(c) 30
(c) 30
(d) 22
(e) 4ays
(f) 8 days
(f) 8 days

(a) 10 days
(b) 8 days
(c) 5 days
(d) 2 days
(d) 2 days
(e) 16 days. How long will they take to complete the work if they do it together?

ay. In how many days will A finish the work?

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	ic Mathematics/Ar	ithmetic's		19 I.C.	
RAS	ic Mathematics	(b) 15	(c) 11	(1)	371
Dae	(8)	e ogrn KS 264 in X	dave and 2	(d) 9	:
	If 3 men with 4 bb	ch time 6 men and 7 (b) 5 days	days and 2 men with boys earn Rs 3152	2 boys earn Rs. 18	14 in the
1.	ame periou in that	(b) 5 days	J		
	1 JONE			(d) 7 days	
		or 2 days A left the	B in 15 days and C ir	20 days. They sta	rted the
8.				y before the comp	etion of
	work. How long	guite the work last.			
	3 days	(b) $6 - days$	(c) $7\frac{3}{-}$ days	(d) $8 - days$	2
	(a) 5-days	9 9	(c) $7\frac{3}{7}$ days	6	
	rea mon and 3 boy	s can do a piece of	work in 5 days, 3 me	n and 2 boys can d	o it in 7
9.	How long wil	15 men and 4 boys t	ake to do it?		
	() 2 days	(b) 4 days	(c) 5 days	(d) 6 days	
	(a) you's	an do a piece of wor	k in 5 hours and 2 m	en and 1 boy can d	lo it in 4
10.	I man and 2 boys c	e will 1 man and 1 b	ov do it?		
	nours, in what this	3	7	4,	
	(a) 6^2 hours	(b) $7 - hours$	(c) $7\frac{7}{8}$ hours	(d) $8 - hour$	S
	(u) ³	. 8	8	the ford and	C in 10
11.	A can do a piece o	of work in 3 days. B	can do the same wo	ork in o days and	take for
	days A started the	work but had to lea	ive after 2 days. now	much time-win it	tane ioi
4	hoth R and C toget	her to complete the	remaining work.		
	. 3	(1) 5 days	(c) $\frac{9}{4}$ days	(d) $\frac{15}{10}$ days	
	(a) $-days$	(b) - days	(c) 4 dujs	4	
12.		Difference Difference	ama job in 10 days a	and C in 15 days.	D anu C
	together start the y	work but are forced	to leave after 2 days	. How long will it	take for
	A to complete the r	omaining WORK?			
			(c) 6 days	(d) 4 days	had the
13.			The worked at it for	3 days and B finis	neu inc
	remaining work in	6 days In how man	y days can B do the v	whole work?	
	(a) 10	(b) 8	(c) 6	(d) 4	Lildron
14,	3 mon 1 4		the loss such if	h 5 women and 7	children
	Can do it i o i	n can do a piece or v	on 9 men. 22 women	and 14 children d) IL:
	(a) 2	In how many days	vork in 12 days, whe can 9 men, 22 women (c) 4	(d) 5	tained
15.	(a) Z	(b) 3	(0)	, and was the	n joineu
	hy p a piece of	f work in 20 days. H	(c) 4 Ie worked at it for 5 days. In how many	days can B do th	e whole
	· ····································	vork lasted for 15	days. In now many		
16,	(a) 30 days	(b) 35 days	(c) 40 days work in 17 days, the	n in how many day	s / men
	and in or 5 wome	en can do a piece of	work in 17 days, the	3.9	
	women will	finish that work?	1 Statistics	2	
1	121 2 2	-	(c) $7\frac{3}{5}$	(d) 8-7	2
17.	1	(b) $5\frac{7}{2}$	(c) / <u>5</u>	They work	together
	A can do a	8	Dean do it in 150	days. They after that	C joins
	for 20 days piece of	work in 120 days a	(c) $7-5$ nd B can do it in 150 nues the work alone	12 days can C do	it if he
	and a streng	B leaves and A conti	nd B can do it in 150 nues the work alone tys more. In how ma	any days can	
	Works alone?	completed in 48 da	nd B can do it in re- nues the work alone tys more. In how ma		
			C	Conned with Come	ooppor

372					Basic Mather	matics/Arithmetic's
	(a) 180 days	(b)	210 days	(c)	240 days	(d) 270 days
18.	A and B can fill a	distorn	in 25 minu	here and	30 minutes res	spectively. Both the
	were turned on at	once, l	out after som	ne time	e, A was turned	d off and the cistern was
						- 1145
	filled in $16\frac{4}{5}$ minute	utes mo	re by B. Ho	w long	after the pipes	had been opened was A
	turned off.					
	(a) 5 minutes	(b)	6 minutes	(c)	7 minutes	(d) 8 minutes
19.	A can do a work	in 24 d	avs. B in 32	2 days	and C in 64 da	ays. They start the work
17.	together and A lea	ves the	work after 6	days w	hile B leaves th	e work 6 days before the
	work is finished. T	he who	le work was	complet	ted in	
	(a) 15 days	(b)	20 days	(c)	25 days	(d) 30 days
20.	A and B can do a i	piece of	work in 12 d	lays. B	and C together	can do it in 15 days. If A
8 15 I	is twice as good a v	vorkma	n as C, B alo	ne wou	ld do it in	
	(a) 15 days	(b)	20 days	(c)	25 days	(d) 30 days
21.	How many days v finish?	vill 12 1	nen take to	comple	te a job which	18 men take 36 days to
	(a) 24 days	(b)	54 days	(c)	72 days	(d) 18 days
22.						n it in 20 days. In how
	many days can A c					6. g.d 41.01
	(a) 60 days		40 days	(c)	45 days	(d) 30 days
23.	If work can be con		and the second s			then it can be completed
	by both working to	-		er all B	and disco.	the second of the second s
						ys (d) Forty five days
24.	A and B can do a	piece of	work in 30 d	lays wh	ile B and C can	do the same work in 24
	days and C and A	in 20 c	lays. They al	ll work	for 10 days wh	en B and C leave. How
	many days more w					and the state of the
25.	(a) 17 days	(b)	18 days	(c)	19 days	(d) 20 days
25.	A, D and C can do days A leaves off a	a piece	OI WORK IN I	0 days.	After working	at it with B and C for 4
	alone do it.	inu thei		ISN IT IS	10 days more. I	n how many days can A
	(a) 25 days	(b)	20 days	(a)	20.4	
26.		• •	led a niece o	fwork	30 days	(d) 40 days for 5 days, B for 7 days
	and C for 9 day.	Their of	aily wages	Were in	A worked at it	for 5 days, B for 7 end 4:3:2 and total earning
	amounted to Rs. 11	8. Wha	t were the da	ilv wag	es of each?	4:3:2 and total car
	(a) 2, 4, 3	(h)	649	(a)	226	(1) 0 6 4
27.	A can do a work in	16 day	s B in 24 da	The	·	(d) 8, 6, 4 of C and together finish
	uays.	II LUC	otai remine	ration	on the sure of t	Rs. 40, find the amount
	in receive m	propor	tion to the we	ork don	e by each	Ks. 40, 1110 0.00
20						(d) $4, 8, 12$
28.	A, B and C can do	a piece				
	days, A leaves off, a	and the	B and C fin	nish it i	n 10 days more	at it with B and C ^{an} In how many days can
98 L				Win Sample	and second a	
	(a) 20 days	(b)	22 days	(c)	25 days	(d) None of these
						Same of
	a da d				1	

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(2 30. A	gether for 4 days "B and (C can do ne. How ys?	(b) 6 da a piece of	ys work in the worl	(c) 8 d 11 days, c be don	ays	(d)	373 B and C work will be finished. None of these ays respectively by B and C on None of these
_				ANSW	ERS			
1. (d) 11. (b) 21. (b)		3. (c) 13. (b) 23. (a)	4 (c) 14. (a) 24. (b)	• • •	6. (c) 16. (a) 26. (d)	7. (c) 17. (c) 27. (a)	8. (c) 18. (b) 28. (c)	9. (b) 10. (a) 19. (b) 20. (b) 29. (a) 30. (b)

8 - Time and Distance

The speed or velocity of a body is the rate at which it is moving and is measured by the distance which the body would move through in a given time t i.e.,

Speed × time = distance

A man's speed in still water = $\frac{1}{2}$ (man's speed with the current + his speed against the current)

Speed of current = $\frac{1}{2}$ (man's speed with current – man's speed against the current)

Solved Examples

Example 1: Walking at a speed of 5 kilometres per hour a man takes 24 hours to complete a journey. How much time will he require to complete a journey at a speed of 6 kilemotres per hour

Solution: The man completes the journey in 24 hours at a speed of 5 kilometres per hour.

Total distance covered = $5 \times 24 = 120$ kilometres

If the speed is 6 kilometres per hour, time required to complete the above journey

$$=\frac{120}{6}=20$$
 hours

Example 2: The ratio between the rates of walking of A and B is 4:5 and hence A takes 40 minutes many hours does B reach the minutes more to reach the destination, than B takes. In how many hours does B reach the destination? destination?

Solution: Ratio between, the rates of walking A and B = 4:5.

Ratio between the times taken to reach the destination = 5:4.

Thus if A takes 1 minutes more than B, then the time taken by B = 4 minutes. If A takes 1 minutes more than B, then the time taken by $B = 4 \times 40 = 160$ If A takes 1 minutes more than B, then the time taken by $B = 4 \times 40 = 160$ minutes. le 3: Two If A takes 40 minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more than B, then the time taken by $B = 4 \times 40 - 100$ minutes more taken by $B = 4 \times 40 - 100$ m Respectively daily. After traveling for 6 days, the man travelling at 9 km per day doubles his their and both of the ^{speed} and both of them finish it distance in the same time. Find the time taken by them to reach their destination.

Solution: Speed of the Ist man = 9.km. per day

 $= 9 \times 6 = 54$ km.

 $= 15 \times 6 = 90 \text{ km}$

Difference in the distance converted by them in 6 days.

= 90 - 54 = 46 km

Speed of 2^{nd} man = 15 km per day Distance traveled by him in 6 days

= 90 - 54 = 36 km

Speed of the Ist man after 6 days

 $= 9 \times 2 = 18$ km per day

Difference in their present speeds

= 18 - 15 = 3 km/day

Thus to make up a distance of 3 km time taken

=1 day to make up a distance to 36 km,

Time taken =
$$\frac{1}{3} \times 36 = 12$$
 days

Total time taken to cover the whole distance

= 6 + 12 = 18 days.

Example 4: Two trains start at the same time from two stations A and B, 1800 kms apart, and proceed towards each other at an average speed of 76 and 44 kms per hour respectively. When and where will they meet?

Solution: Since the two trains are moving in opposite directions

The distance between them is being diminished at the rate of (76 + 44) or 120 kms per hour i.e., their relative velocity

= 120 kms per hour

Distance to be covered

= 1.800 kms

Time taken in meeting

$$=\frac{1800}{120}=15$$
 hours

Distance from station A

1.:.

$$= 76 \times 15 = 1140$$

Explanation of Some Difficult Questions

The distance travelled by passenger train till 11 A.M. = $36 \times 6 = 216$ kilometres. Now since the two trains are moving in the same direction. Their relative velocity

= 48 - 36 = 12 kilometres per hour The time taken by the express train to overtake the passenger train

=18hours

They will meet at 500 A.M. the next day.

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Basic Mathematics, Antonio Distance from Karachi = $48 \times 18 = 864$ kilometre.

Distance the distance between Ali's place and the station is 1 kilometre. Then time taken Suppose the to reach 1 kilometre = 1/3 hour. The station is 1 kilometre. 2. by Ali in the Ist case to reach 1 kilometre = 1/3 hour. Time taken by Ali in the 2nd case to reach 1 by Ali = 1/4 hour. kilometre = $\frac{1}{4}$ hour.

Difference between the two times

$$=\frac{1}{3}-\frac{1}{4}=\frac{1}{12}$$
 hour

but actual difference between the two times =(4+6) minutes

$$=\frac{1}{6}$$
 hour

When the difference is 1/12 hour, distance = 1 kilometre When the difference is 1/6 hour, distance

$$=12 \times \frac{1}{6} = 2$$
 kilometres

In 3 leaps hound runs = $3 \times 3 = 9$ metres. In 4 leaps have runs = $4 \times 2 = 8$ metres. 3.

But 3 leaps of the hound are equal to 4 leaps of the hare and both of them cover this distance in 1 second.

In I second the distance reduced between them = 9 - 8 = 1 metre. When the distance . reduced is 1 metre, time = 1 second when the distance reduced is 124 metres, time = 124 seconds.

In one minute the monkey ascends = 10 metres, 4.

In the second minute he slips down = 3 metres.

In two minutes he goes up by = (10 - 3) = 7 metres. When by alternate ascending and shipping the monkey reaches within 10 metres of the top, it will ascend to it within the next 1 minute

Hence we should first find the greatest number, not exceeding (63 - 10) metres or 53 metres which is a multiple of 7. This number is 7×7 or 49 metres. The monkey climbs up 7 metres in = 2 mins.

The monkey climbs up 49 metres in

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$$=\frac{7}{2} \times 49 = 14 \text{ min s.}$$

In next one minute, the monkey will climb

$$= 49 + 10 = 59$$
 metres.
In another one minute, monkey will down to
That is time taken to reach upto 56 metres

= 59 - 3 = 56 metres

That is time taken to reach upto 56 metres.

= 14 + 1 + 1 = 16 mins

(63 - 56) = 7 metres remain to be climbed. Now This height will be climbed up by the monkey in

$$=\frac{7}{10}$$
min = 42 secs

Total time taken by the monkey to reach the top of the pole

= 16 min. 42 sec.

9 – Discount, Stock and Shares

Important Formula: Denoting the amount by A, present worth by PW, true discount by TD, rate by R and time by T, the following formulae can be written.

True Discount (TD) = Interest of present worth (PW)

Amount (A) - Present Worth (P.W.) + True discount (T.D.)

$$TD = \frac{PW \times R \times T}{100}$$
$$PW = \frac{TD \times 100}{R \times T}$$
$$T = \frac{TD \times 100}{PW \times R}$$
$$R = \frac{TD \times 100}{PW \times T}$$
$$TD = \frac{A \times R \times T}{100 + (R \times T)}$$
$$PW = \frac{A \times 100}{100 + (R \times T)}$$

Denoting the banker's discount by BD, banker's gain by BG and simple Interest by SI, the following formulae can be written:

BD = SI on the amount A =
$$\frac{A \times R \times T}{100}$$

BG = $\frac{TD \times R \times T}{100}$
TD = $\frac{BG \times 100}{R \times T}$
A = $\frac{BD \times TD}{BD - TD}$
= $\frac{BD \times TD}{BG}$
= $\frac{SI \times TD}{SI - ID}$

Solved Examples

Example 1: A man purchased a house for Rs. 5000 and sold it the same day for Rs. 6600 allowing the buyer 2 years credit. Find the gain per cent if the money is worth 5%. Solution: In this case, the sum of Rs. 6600 is due only after 2 years. Therefore, to find the actual gain or loss, the present worth has to find the actual gain or loss, the present worth has to found.

Basic Mathematics/Althinetic's

pW of the selling price = $\frac{6600 \times 100}{100}$

$$= \frac{6600 \times 100}{110} \text{Rs.} 6000$$

$$= \frac{6600 \times 100}{110} \text{Rs.} 6000$$

$$\text{Cost price} = \text{Rs.} 5000$$

$$\text{Gain} = 6000 - 5000 = \text{Rs.} 1000$$

$$\text{Gain percentage} = \frac{1000}{5000} \times 100 = 20\%$$

Example 2: A man purchased a horse for Rs. 6000 and sold it for Rs. 7920 on credit and still gained 10% though the money is worth 5%. For how much time was the credit allowed? Solution: Cost price = Rs. 6000

Gain = 10%Present worth of the selling price $=\frac{6000\times110}{100}$ = Rs.6600 Amount = Rs. 7920True discount = 7920 - 6600 = Rs. 1370Rate = 5% $Time = \frac{TD \times 100}{PW \times R}$ $=\frac{1320\times100}{6600\times5}=4$ years

Example 3: The true discount on a bill due 2 years hence at 5% is Rs. 1000. Find the Banker's discount.

Solution :

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Since PW = $\frac{TD \times 100}{R \times 1}$ R = 5% T = 2 years TD = Rs. 1000 $PW = \frac{1000 \times 100}{5 \times 2} = Rs.10,000$

Amount PW × TD

= 10,000 + 1000 = 11000 BD = SI on amount

 $\frac{11000 \times 5 \times 2}{100} = \text{Rs.1100}.$

Example 4: The true discount on a certain sum at a certain rate for 3 years is Rs. 500 and the rate banker's discount on the same sum at the same rate and time is Rs. 550. Find the sum and the rate per cent.

^{Solution}:

BD = Rs.550

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TD = Rs. 500

Sum due = Amount =
$$\frac{BD \times TD}{BD - TD}$$

= $\frac{550 \times 500}{50}$ = Rs.5500

We know that BD is SI on the amount.

:. Rs. 550 is SI on Rs. 5500 for 4 years

$$Rate = \frac{BD \times 100}{AT}$$
$$= \frac{550 \times 100}{5500 \times 3} = 3\frac{1}{3}\%$$

Example 5: The difference between the Banker's discount and the true discount on a sum of money at 5% in 2 years is Rs. 15. Find the sum.

Let the sum A = Rs. 100 R = 5% T = 2 years TD = $\frac{A \times R \times T}{100 + (R \times T)}$ = $\frac{100 \times 5 \times 2}{100 + 10}$ = Rs. $\frac{100}{11}$ BD = $\frac{100 \times 5 \times 2}{100}$ = Rs.10 BD - TD = Rs. $(10 - \frac{100}{11})$ = Rs. $\frac{10}{11}$

If the difference between BD and TD is Rs. 10/11, then the amount = Rs. 100. If the difference between BD and TD is Rs. 15, then amount

$$=\frac{100\times11}{10}\times15=$$
Rs.1650

	MCQs
l .	Find the cost price of Rs. 1200, $3\frac{7}{8}$ % stock at $96^{\frac{7}{8}}$, the brokerage being $\frac{1}{8}$
10 k	 (a) '044 (b) 1144 (c) 1244 (d) 1344 (e) 1344 (f) 1344 (f) 1344 (f) 1344 (g) 1344 (g)
	(a) 7000 (b) 8000 (c) 9000 (d) 10,000
	We provide Preparation Material 4 All Tests, visit our site, and download in pdf
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Solution:

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Basic Mathematics/Artematics
Basic
A man invests half of his money in 41/0/

of his money in 41/2% stock at 120 and the other half in 31/2% at 90. Had he invested, his money in order to buy equal amounts of each stock, he would 3. have got Rs. 5 less of income? Find the total investment. (a) 2000 (b) 4000 (c) 6000 True discount on a bill of Rs. 5400 is Rs. 900. Find the banker's discount and also 4. 170 (b) 180 (a) (c) 190 Banker's gain on a bill is Rs. 18 whole present worth is Rs. 450. Find true discount. 5. 110 (b) 90 (a) (c) 80 (d) 60 If the present worth of a bill of Rs. 660 due 2 years hence is Rs. 600, the rate per cent 6. per annum is (a) 4% (b) 5% (c) 6% (d) 10% The true discount on a sum of money due first year is Rs. 100 and banker's discount 7. on the same sum and for the same time is Rs. 104. The sum is Rs. 2500 Rs. 2550 (b) (a) (c) Rs. 2600 (d) Rs. 2700 Javed purchased 41/2 stock of Rs. 1050 which is at 141/3 premium. How much he 8. invested if brokerage is 1/8? (d) None of these (a) 200 (b) 400 (c) 600 School want to invest Rs. 5250 in a 4% stock at Rs. 100. What will be my income per 9. annum? 400 p.a. (d) 500 p.a. (c)

(a) 200 p.a. 300 p.a. (b) How much stock can a person purchase by investing Rs. 2600 in 5% stock at Rs. 10. 103^{7/8} (brokerage 1/8%? What will be his annual income? (d) 175 150

(c) 125 (a) 100 (b) Ali sells 60 shares of 5% of a company of Rs. 100 cash in Rs. 105 and invests the 11. proceeds in another company at Rs. 110 of Rs. 100 share each, the rate of dividend is 11% yearly. Find the charge in income. (d) 380 350

(c) 330 (a) 300 (b) Rs. 120 is divided between A, B and C so that A's share is Rs. 20 more than B's and 12: Rs. 20 less than C's. What is B's share? (d) Rs. 25 **Rs.20**

(c) **Rs.10** (a) Rs. 15 (b) Successive discounts of 10% and 20% are equivalent to a single discount of 13. (c) 25%

A person invests some money in the 3% stock at 10% discount and when the stock is 14. a premium of 5%, he sells them and thereby gains Rs. 250. How much amount he

invested in purchasing the earlier stock? (d) 2500 2000 How much stock can be person purchase by investing Rs. 2600 in 5% stock at Rs. 103^{7/8} burt 15. 103^{7/8} brokerage 1/8%? What will be his annual income? (d) 140 (a) (c) 125

(b) 120 ANSWERS 9. (a) 10. (b) 7. (c) 8. (d) ^{1.} (b) 2. (d) 6. (b) 5. (b) ^{11.} (b) 4 (b) 3. (d) 12. (c) 14. (b) 15. (a) 13. (a)

EXPLANATION OF DIFFICULT QUESTIONS

Cost price of Rs. 100 stock

...

$$= \operatorname{Rs}\left(96\frac{7}{8} + \frac{1}{8}\right) = \operatorname{Rs}.97$$

Cost price of Rs. 1200 stock

$$=\frac{97}{100}\times1200=1144.$$

Amount of stock purchased for 2.

$$Rs.900 = \frac{100 \times 9000}{90} = Rs.10,000$$

Income from this stock

$$= \text{Rs} \frac{3 \times 10,000}{100} = \text{Rs}.300$$

Income fro second stock

$$= \text{Rs.}(300 + 100) = \text{Rs.}400$$

Sales proceeds of first stock

$$= \text{Rs.} \frac{10,000 \times 95}{100} = \text{Rs.}9500$$

Amount of second stock

$$= \text{Rs.} \frac{400 \times 100}{4} = \text{Rs.} 10,000$$

Hence the latter stock was bought for Rs. 10,000

3. Let the investment = Rs, 100

Case I. The man invests of Rs. 50 in $4\frac{1}{2}$ % at 120 and other Rs. 50 in $3\frac{1}{2}$ % at 90. His total income

$$= \text{Rs.}\left[\frac{9}{2} \times \frac{50}{120} + \frac{7}{9} \times \frac{50}{90}\right]$$
$$= \text{Rs.}\frac{275}{72}$$

Case II: In the second case he buys equal amount of stock i.e., Rs. 100 is invested in the ratio of 400 to beta south a Bis of a 300 in the first stock and Rs. $\frac{500}{7}$ in the second stock 120:90 .e., 4:3. Thus he invests Rs. 7 l is total income

$$= \operatorname{Rs} \left[\frac{9}{2} \times \frac{400}{7} \times \frac{1}{200} + \frac{7}{2} \times \frac{300}{7} \times \frac{1}{20} \right]$$
$$= \operatorname{Rs} \left[\frac{80}{21} \right]$$

Decrease in income

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 $=\frac{275}{72}-\frac{80}{21}=$ Rs. $\frac{5}{504}$ But the actual decrease = Rs. 5If the decrease is Rs. 5/504, total investment = Rs. 100 If the decrease is Rs. 5, total investment $=100 \times \frac{504}{5} \times 5 = \text{Rs.}50,400$ Amount = Rs. 5400, TD = Rs. 900 4. PW = Amount - TD= Rs. 5400 - Rs. 900 = Rs. 5400 SI on Rs. 4500 = Rs. 900... SI on Rs.5400 = Rs. $\frac{900 \times 5400}{4500}$ = Rs.1080 :. BD = Rs. 1080:. = Rs. 1080 - 900 = Rs. 180. $TD = \sqrt{PW \times BG}$ 5. $=\sqrt{450 \times 18} = \sqrt{8100} = \text{Rs.90}$ 6. PW = Rs. 600, Interest = Rs. 660 - 600 = Rs. 60Time= 2 years, Rate= $\frac{60 \times 100}{600 \times 2} = 5\%$ $\operatorname{Sum} = \frac{\operatorname{BD} \times \operatorname{TD}}{\operatorname{BD} - \operatorname{TD}} = \frac{104 \times 100}{104 - 100}$ 7. $=\frac{104\times100}{4}$ = Rs.2600 Market value of Rs. 100 stock is Rs. $100+14\frac{7}{8}$ 8. Brokerage = Rs. $\frac{1}{9}$ Investment required for Rs. 100 stock $= \text{Rs.}\left(100 + 14\frac{7}{8} + \frac{1}{8}\right) = \text{RS.}115$ For Rs. 100 stock money invested = Rs. 115 For Rs. 1050 stock money invested = Rs. $\frac{115}{100} \times 1050 = 1207.50$ Money invested = 1207.50 9 $Value of stock = 5250 \times \frac{100}{106} = Rs,5000$

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Income Rs.
$$5000 \times \frac{4}{100} = \text{Rs. } 200 \text{ p.a.}$$

0. Market value of Rs. 100 stock is Rs. $103\frac{7}{8}$

Brokerage on stock of Rs. 100 is ⁸ Total investment for RS. 100 stock

$$= \text{Rs.}103\frac{7}{8} + \text{Rs.}\frac{1}{8} = \text{Rs.}104$$

1

Total investment done = Rs. 2600

Value of stock = Rs.
$$\frac{100}{104} \times 2600 = \text{Rs.} 2500$$

Annual Income Rs. $\frac{5}{100} \times 2500 = \text{Rs.}125$

Face value of 60 shares = Rs. 60 × 100 = 6000Income from these 60 shares

$$= \text{Rs.} \frac{5}{100} \times 6000 = \text{Rs.} 300$$

Selling price of 60 shares = Rs. 105×60 = Rs. 6300In Rs. 110, the man can purchase shares of Rs. 100 In Rs. 6300, the man can purchase shares of

$$=\frac{100}{110} \times 6300 = \frac{63000}{11}$$

New income = $\frac{11}{100} \times \frac{63000}{11} = \text{Rs.}630$
Change in Income = Rs. $630 - 300 = 300$
Rise in Income = Rs. 330

10 – Mensuration

We always keep the following formulae in mind at the time of solving the problems of (a) Area of a Dect

Area of a Rectangle

1. Length =
$$\frac{\text{Area}}{\text{Breadth}}$$

2. Area = Length × Breadth
3. Area = $\frac{\text{Total cos t}}{\text{Cost of 1 sq. unit}}$

...

4. Breadth =
$$\frac{\text{Area}}{\text{Length}}$$

5. Diagonal = $\sqrt{(\text{length})^2 + (\text{breadth})^2}$
6. Perimeter = 2 (Length + Breadth)
(b) Area of a Square
1. Area = (side)^2
 $= \left(\frac{\text{Diagonal}}{2}\right)^2$
 $= \frac{\text{Total cost}}{\text{Cost of lsq. unit}}$
2. Diagonal = $\sqrt{2}$. Side
 $\sqrt{2 \times \text{Area}}$
3. Perimeter = 4 × side
4. Side = $\sqrt{\text{Area}}$
 $= \frac{\text{Perimeter}}{4}$
(c) Area of four walls
1. Area of four walls = 2 (Length + Breadth) × Height
2. Height = $\frac{\text{Area of four walls}}{2(\text{Length + Breadth})}$
(d) Area of a Circle
1. Circumference of a circle = $2\pi r$
2. Area of a circle = $\frac{\text{Diameter}}{2}$
 $= 2r$
4. Radius of a circle = $\frac{\text{Diameter}}{2}$
 $= \sqrt{\frac{\text{Area}}{\pi}} = \frac{\text{Circumference}}{2\pi}$
5. Area of a sector = $\frac{D}{360} \times \text{area of a circle}$
(e) 1. Area of a trapezium
 $= \frac{1}{2} \text{sum of the parallel sides × height}$
2. Area of a rhombus

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$$=\frac{1}{2}$$
 (product of the diagonals)

3. Area of a Parallelogram = base \times height.

(g) Area of a Triangle

2.

1. Area of
$$a \Delta = \sqrt{s(s-a)(s-b)(s-c)}$$

(where s = 1/2 perimeter and a, b, c, are the three sides)

$$=\frac{1}{2} \times base \times height$$

Base of a Δ Height

3. Height of a
$$\Delta \frac{2 \times \text{Area}}{\text{Base}}$$

4. Area of an equitaleral triangle =
$$(side)^2 \times \frac{\sqrt{3}}{4}$$

5. Attitude of an equivalent triangle = side $\times \frac{\sqrt{3}}{2}$

Measurement of Volume

- (a) Cube and cuboid
- (i) Volume of cube (a dice, a sugar cube, an ice cube) = $(side)^2$
- (ii) Surface area of a cube = $6 (side)^2$
- (iii) Longest diagonal in a cube = $\checkmark 3 \times \text{side}$
- (iv) Volume of a cuboid (a tank, brick, etc.) = $L \times B \times H$
- (v) Surface area of a cuboid = $2(L \times B + B \times H + H \times L)$
- (vi) Longest diagonal in a cuboid

$$=\sqrt{L^2+B^2+H^2}$$

Solved Examples

Example 1: A square piece of ground is 65 metres long. Find the cost of fencing it round with lines of wire at the rate of Rs. 1.35 per metre. **Solution:** Perimeter of square piece of ground with the cost of fencing it round with the cost of

Perimeter of square ground

 $= 4 \times side$

 $=4 \times 65 = 260$ metres

Length of wire used in 5 line

$$= 5 \times 260 = 1300 \text{ m}$$

Cost of fencing at the rate of Rs. 1.35 per metre

$$=$$
 Rs. (1.35 \times 1300)

= Rs. 1755.

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xampre		
olution:	$=2 \pi^2$	
	$r = \frac{14}{2} = 7cm$	
	$1 = \frac{1}{2}$	
	22	
	Perimeter = $2 \times \frac{22}{7} \times 7 = 44$ cm.	
ample 3:	Find the perimeter of a floor whose area is 45 m^2 and length is 9 m.	
	Breadth = $\frac{\text{Area}}{\text{Length}}$	
olution:	Length	t
	$-=\frac{45}{9}=5m$	
	<i>y</i>	
-	Perimeter = $2(l + b) = 2(9 + 5)$	
	= 28 m.	
	MCQs	
	area of the base of a rectangular tank is 2400 square metres and its side	ana in
the	Rs. 230 (b) Rs. 220 (c) Rs. 250 (d) Rs. 210 cost of turfing a rectangular field at 85 Paise per square metre is Rs. 624. perimeter of the field if its sides are in the ratio 5 : 3.	75. Find
(a) The of the (a) A roo rou	Rs. 230 (b) Rs. 220 (c) Rs. 250 (d) Rs. 210 cost of turfing a rectangular field at 85 Paise per square metre is Rs. 624. perimeter of the field if its sides are in the ratio $5:3$. 12 m (b) 110 m (c) 120 m (d) 130 m 12 m 7m × 5.6 m is to be carpeted leaving 0.3 meter space ind. Find the carpeted area. (d) 20 sq. m	75. Find bars al n.
(a) The o the (a) A roo rou (a)	Rs. 230(b)Rs. 220(c)Rs. 250(d)Rs. 210cost of turfing a rectangular field at 85 Paise per square metre is Rs. 624.perimeter of the field if its sides are in the ratio 5 : 3.perimeter of the field if its sides are in the ratio 5 : 3.12 m(b)110 m(c)120 m(d)130 m12 m(b)110 m(c)120 m(d)130 m0m measuring 7m × 5.6 m is to be carpeted leaving 0.3 meter spaceof M. Find the carpeted area.(c)25 sq. m.(d)20 sq. m30 sq. m.(b)32 sq. m.(c)25 sq. m.(d)20 sq. m	75. Find bars al n. g in the
(a) The o the (a) A roo rou (a)	Rs. 230(b)Rs. 220(c)Rs. 250(d)Rs. 210cost of turfing a rectangular field at 85 Paise per square metre is Rs. 624.perimeter of the field if its sides are in the ratio 5 : 3.perimeter of the field if its sides are in the ratio 5 : 3.12 m(b)110 m(c)120 m(d)130 m12 m(b)110 m(c)120 m(d)130 m0m measuring 7m × 5.6 m is to be carpeted leaving 0.3 meter spaceof M. Find the carpeted area.(c)25 sq. m.(d)20 sq. m30 sq. m.(b)32 sq. m.(c)25 sq. m.(d)20 sq. m	75. Find bars al n. g in the
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	206					Basic Mathe	ematics/A	rithmetic's
	386		(b)	120 m	(0	;) 112 m.		130 m.
		(a) 110 m. The area of a triang	(0) La la 49	am^2 its ha	se is 1	2 cm, what is its	altitude?	
	9.	The area of a triang		4 cm.	(c) 8 cm.	(d)	10 cm.
		(a) 6 cm. An isosceles right tri	(6)	4 CHI.	0 cm^2	what is the leng	gth of its hy	potenuse?
	10.	An isosceles right tri	iangle	nas area 20	(ciii ;	20.12 cm	(d)	$40\sqrt{2}$ cm.
			(h)	$10_{2}/2$ cm.	(0	;) 30v2 cm.	· · /	(= 011).
		· · · · · · · · · · · · · · · · · · ·		toral triang	le is 1	8 cm. Find its ar	ca	- F
	11.	F	11 1	0 12	10	1 01 5 54.11		
		(a) $6\sqrt{3}$ sq.m. Find the area of a tri	(0)	57 J 39.11.		espectively 150 c	m, 120 cm	and 200 cm.
	12.	Find the area of a tri	iangle	whose sides	aren	29775 cm^2	(d)	58665 cm ²
		(a) 68665 cm^2 The sides of a trian	(b)	89665 cm	(0)	160 m and	200 m. Fi	ind the cost of
	13.	The sides of a trial	ngular	field are	120 m	I., 100 m. and		
								Rs. 1800
			14 1	D 00000	(c)	Rs. 2000		
	14.	(a) Rs. 2400 The perimeter of a tr	iangle	is 540 m an	d its s	ides are in the ra		
	•	of the triangle.						
		(a) 6000 m^2	(b)	4000 m ²	(c)	9000 m ²	(u) .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	15.	Find the area of a tri	angle v	whose sides	are 9 (cm, 12 cm and 1:	(d) (d)	20 sq. cm.
		(a) 50 sq cm	(h)	54 sq. cm.	(C)	40 sq. cm.	(u) 2	
	16.	A triangle has sides 5	icm, 12	cm and 13	cm. F	ind the length of	one decin	iai place of the
		perpendicular from	the ve	ertex to the s	side w	hose length is 13	cm.	
		(a) 4.61 cm.	(b)	2.60 cm	(c)	6.50 cm.	(d) 5	.50 CIII.
	17.	The perimeter of a tr	iangle	field is 240	dm: I	f two of its sides	are 50 dn	1 and /8. Fille
		the length of the p	erpen	dicular on t	the sic	le of length 50	dm. From	the opposite
		vertex. Calculate als	so the o	cost of water	ring it	at Rs. 2.75 per 1	00 m ⁻ .	Carriso
		(a) 36 paise	(b)	46 paise	(c)	26 paise	(d) 1	6 paise
	18.		triang	ular field at	Rs. 45	5 per 100 m ² is \mathbf{F}	ks. 900. Fii	id its neight"
		double the base of th						2
	10	(a) 20 m.	(0)	30 m.	(c)	, 40 m.	(d) 50) m.
	19.		ithe tria	ingle is 60 c	m. Its	hypotenuse is 26	6 cm. Find	the other two
		sides and the area of		-	- Arger	ta de la tele co		
	20.	(a) 130 sq. cm.	(0)	120 sq. cm.	(c)	140 sq. cm.	(d) 15	50 sq. cm.
×5	20.	Find the base of an iso	osceles	triangle wh	lose ar	rea is 60 cm ² and	d the lengt	h of one of the
		equal sides is 13 cm. (a) 24 cm or 10 cm	(1)		1.17.100 1.			or 10
		(a) 24 cm. or 10 cm. cm.	(0)	12 cm. or 10	cm.(c) 35 cm. or 10 cn	n. (d) 25	cm. or
	21.		10 A	and the total		and a state of the		
	0.000	Find the area of an equ	mater	al triangle w	vhose	side is 9 cm.		
		(a) $\frac{\sqrt{2}}{\sqrt{2}}$ (side) ²	(h) V	3	he s	$\sqrt{4}$	1	$\overline{6}$ (10) ²
	2 M 20	(a) $\frac{\sqrt{2}}{4}$ (side) ²	(0) -	$\frac{-(side)}{4}$	(c)	$\frac{1}{4}$ (side) ²	(d) $\frac{1}{4}$	=(side)
	22.	The base of a triangula	ar field	1 is 21/ 4!	n 14. 1	4	4	it at Rs. 35
	41224		00. Fin	d the base	s its h	leight. If the cos	t of turfing	g n a.
		(4) 200 m. (b) 1	00 m	(0)	2001) m
-	23.	The diagonals of a rhor (a) 42 cm.	nbus a	re 24 cm	(c)	300 m.	(d) 400	oter.
	1	(a) 42 cm. (b) 5	2 cm	10	cm. Find its area	a and perin	neter
		100-000	., .	- v	(0)	32 cm.	(d) 22	CIT.
				· · · ·		1	1993 - 1993 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 - 1983 -	11.15
				(199)		· · · · · · · · · · · · · · · · · · ·		

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	stathematics/Arit	hmetic's				207			
Basic Mathematics/Arithmetic's 387 The area of a rhombus is 60 sq. cm. one diagonal is 12 cm. Find the other.									
24.	The all cm	(b) 20 cm.	(0) .	JU CIII.		10			
-	(a) 10 cm	elogram is /2 cm ⁻ .	If its alti	itude is ty	vice the corr	40 cm.			
25.	The area of the base	and the altitude.			the the corre	sponding base,			
	() 22 cm.	(0) 12 cm.	(c) 1	0 cm.	(d)	20 cm			
	(a) 22 of a trapez	zium is 804 cm ² an	d the per	pendicul	ar distance b	etween the two			
26.	narallel sides is 24	cm. If one of the tw	o paralle	l sides be	38 cm. Find t	he other side.			
	(a) 19 cm	(b) 29 cm.	(c) 3	9 cm.	(d)				
	A narallelogram, the	e lengths of whose	sides are	12 cm an	d 9 cm has o				
27.	cm long. Find the a	rea of the parallelo	gram.			no angona io			
	(a) 79.4 cm^2	(b) 59.2 cm^2	(c) 6	9.6 cm^2	(d) 4	19.4 cm^2			
28.	• · · · · · · · · · · · · · · · · · · ·	a quadrilateral wi							
20.	19 dm. And 11 dm.					1.			
	(a) 23 dm.	(b) 33 dm.	(c) 1.	3 dm.	(d) 4	3 dm.			
29.	Area of a quadrilate	ral piece of land is 4	486 sq. m.	and one	diagonal 36 n	n and the ratio			
	of the offsets is 4 : !	5. Find the lengths of	of these of	ffsets.					
	(a) 12 m. and 15 m.	(b) 10 m. and 20	0 m. (c	;)	20 m	. and 10 m.			
	(d)	20 m. and 20 m.							
30.	The parallel sides of	f a trapezium are 8	85 mm an	id 63 mm	and its altitu	ide is 36 mm.			
	Find the area of the	e trapezium.	17 17 NO.			(()			
11	(a) 26.64 sq. cm.	(b) 16.64 sq. cm	n. (c) 36	6.64 sq. cn	n. (d) I	5.64 sq. cm.			
31,	Two adjacent sides o	of a parallelogram a	re 3.2 cm	and 4 cn	n. What is the	e ratio of their			
	altitude?				(4) 2	• 1			
	(a) 5:4	(b) 4:4	(c) 6	: 4	(d) 2	1			
32.	The angle of elevation	on of a vertical tow	ver. 50 m	. high, at	a point 50√	3 m from its			
	foot, is		,,			ж ¹ а н			
	(a)			0	(d) 75	U C			
33.	(a) 15°	(b) 30°	(c) 60) 0					
677	rrom the top of a ver	tical tower it is obs	erved that	it the top	of a tree and	is 10 m then			
	angles of depression	30° and 45° resp	ectively. I	if the heig	sht of the tree	: is it in then			
	the neight of the low	last is in matres			*	* * · · · ·			
/	(a) $50\sqrt{3+1}$	(b) $100(\sqrt{3+1})$	(c) 5(3·	+√3)	(d) 10	$(3+\sqrt{3})$			
1						· · · · · ·			
l. (c		ANSW	/ERS		4. (1)	(1) (2)			
1 0	141 2	4 (c) 5. (b)	6. (a)	7. (b)		9. (c) 10. (a) 9. (b) 20. (c)			
21. (1 31. (1	$\frac{12.}{22}$ (b) 13. (a)			17. (b)		9. (a) 30. (a)			
^{ار} ($\begin{array}{c} 22. (b) \\ 32. (b) \\ 32. (b) \end{array}$ 23. (b)	24. (a) 25. (b)	26. (b)	27. (a)	28. (b) 2	9. (1) 50. (4)			
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	24. (4) 25. (5)		Sec. 1	salaya di ka				
1,	337.32 7 0			1 and - mail	TONE				
	Let the EXPLANA	TION OF SOME	DIFFIC	ULT QU	ESTIONS				
	Let the length of the t	ank he v metres		eren herrike	H14				
	The -	2v			- nor				
	Then Bread	$h = \frac{2x}{metres}$	•		0				
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Area = $x \times \frac{2x}{2}$ sq.metres But area = 2400 sq. metres (given) $\frac{2x^2}{2} = 2400$ $x^2 = \frac{2400 \times 3}{2} = 1200 \times 3 = 3600$ $x = \frac{2}{\sqrt{3600}} = 60$ Length = 60 metres Breadth $= 2/3 \times 60$ metres = 40 metres Perimeter = 2 (Length + Breadth) $= 2(0 + 40) = 2 \times 100$ metres = 200 metres = Rs. 200 \times 1.25 = Rs. 250 Cost of turfing per sq. in = Rs. 85/100Total cost of turfing the field = Rs. 625.75Area of rectangular field $=\frac{625.75}{85}=\frac{625.75\times100}{85}$ $=\frac{625.75}{85}=735$ sq.m. Let length be 5x m. And breadth be 3x m. Area = $5x \times 3x = 15x^2$ sq. m. $15x^2 = 735$ or $x^2 = 735 \div 15 = 49$ $x = \pm \sqrt{49} = 7m$. Length = $5 \times 7 = 35$ m. Breadth = $3 \times 7 = 21$ m. Perimeter = $2(l + b) = 2(35 + 21) = 2 \times 56 = 112$ m. Bare space all round = 0.3 m. Length of inner rectangle $= 7 m - 2 \times 0.3 m$ = 7 m - 0.6 m = 6.4Breadth of inner rectangle $= 5.6 \text{ m} - 2 \times 0.3 \text{ m}$

= 5.6 m - 0.6 = 5 m.Area of inner rectangle

 $= 6.4 \text{ m} \times 5 \text{ m}.$

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Basic Mathematics/Arithmetic's Carpeted area = 32 sq. m. Area of road parallel to length $= 80 \times 10 = 800 \text{ m}^2$ 4. Area of road parallel to breadth $= 60 \times 10 = 600 \text{ m}^2$ Area of shaded portion (common to two roads) $= 10 \times 10 = 100$ sq. m. Area of roads = (800 + 600 - 100) sq. m. ... = 1300 sq. m.Rate of gravelling = 30 paise per sq m. Cost of gravelling ... $= \text{Rs.1300} \times \frac{30}{100}$ = Rs. 13 \times 30 = Rs. 390. Diagonal of a square = side $\sqrt{2}$ 5. Area of square = 24,200 sq. m. Side of square = $\sqrt{\text{Area}} = \sqrt{24200}$... $=\sqrt{121\times100\times2}=11\times10\times\sqrt{2}\mathrm{m}.$ $=100\sqrt{2}m$ Diagonal of square = side $\sqrt{2}$ $=110\sqrt{2}\times\sqrt{2}=110\times2$ = 220 m.6. Area of a square park = 40.000 sq. m. Side of a square Park $=\sqrt{\text{Area}} = \sqrt{40.000} = 200 \text{m}.$ Perimeter of square Park $= 200 \times 4 = 800$ m. Cost of fencing at Rs. 2.80 per metre .. $= 800 \times 2.80 = \text{Rs.} 22.40.$ 7. Let the width of the gravel path be x m. Area of square field with side 44 m. $= 44 \times 44 = 1936$ sq. m. Area of square flower bed with side (44 - 2x) $= (44 - 2x)^2$ sq. m. :. $=(1936-17x+4x^3)$ sq. m. Area of the gravel path = Area of square field + area of flower bed

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 $= 1936 - (1936 - 17x + 4x^{2}) \text{ sq. m}^{2}$ $= 1936 - 1936 + 17x - 4x^2 \text{ sq. m.}$ $= 176x - 4x^2$ sq. m. Cost of laying the flower bed + cost of gravelling path = Rs. 4904 $\frac{275}{100}(1936-176x+4x^2)$ $+\frac{150}{100}(176x-4x^2)=4904$ $\frac{11}{4} (1936 - 176x + 4x^2) + \frac{3}{2} (17x - 4x^2) = 4904$ $11(484 - 44x + x^2) + 3(88x - 2x^2) = 4904$ Or $5324 - 484x + 11x^2 + 264x - 6x^2 = 4904$ Or $5324 - 220x + 5x^2 = 4904$ Or $5x^2 - 220x + 420 = 0$ Or $x^2 - 44x + 84 = 0$ Or (x-2)(x-42) = 0**..** - $\mathbf{x} = 2$ x = 42Or But $x \neq 42$, as the side of square is 44.

With of the gravel path = 2 metres .:. 85 paise or Rs. 85/100 is the cost of leveling 1 sq. m.

 $\frac{1}{85}$ × 624.75 sq.m.

Rs. 624.75 is the cost of leveling

$$=\frac{100}{85}$$
 × 624.75 = 735sq.m

Area of field = 735 sq. m. Let length of field = 5x metres And breadth of field = 3x metres

> Area = $(5x)(3x) = 15x^2$ sq. m. $15x^2 = 735 \implies x^2 = 735 \div 15 = 49$ $\Rightarrow x = +\sqrt{49} = 7 \text{ m}.$

Length = 5x metres = 5×7 m = 35 m. Breadth = 3x metres = 3×7 m = 21 m Perimeter = 2(l + b) = 2(35 + 2)

$$= 2 \times 56 = 112$$
 m.

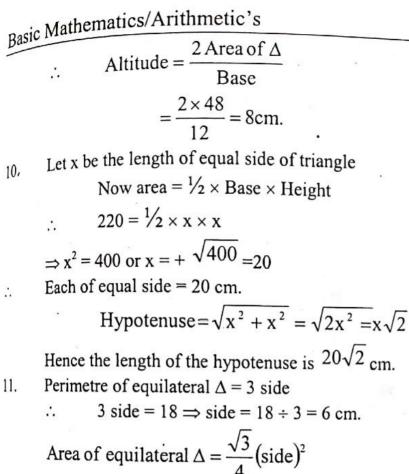
9.

8.

Area of $\Delta = \frac{1}{2} \times \text{base} \times \text{altitude}$

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$$4^{(card)}$$
$$= \frac{\sqrt{3}}{4} \times (6)^{2}$$
$$= \frac{\sqrt{3}}{4} \times 36 = 9\sqrt{3} \text{ sq.m.}$$

12. The sides of a triangle are

a = 150 cm, b, = 120 cm
c = 200 cm.
s =
$$\frac{a+b+c}{2} = \frac{150+120+200}{2}$$

 $= \frac{470}{2} = 235$ cm.

Area of the triangle

:,

$$= \sqrt{s(s-a)(s-b)(s-c)}$$

$$\Delta = \sqrt{235(235-150)(235-120)(235-200)}$$

$$\Delta = \sqrt{235 \times 85 \times 115 \times 35}$$

Taking log of both sides

$$Log \Delta = log (235 \times 85 \times 115 \times 35)^{\frac{1}{2}}$$

$$= \frac{1}{2} log (235 \times 85 \times 115 \times 35)$$

$$= \frac{1}{2} (log 235 + log 85 + log 115 + log 35)$$

$$= \frac{1}{2} (2.371 + 1.9294 + 2.0607 + 1.5441)$$

$$= \frac{1}{2} (7.9053) = 3.95256$$

Area of
$$\Delta = \text{Anti } \log (3.95265)$$

 $= 89665 \text{ cm}^2$
13. The sides of the triangular field are
 $a = 120 \text{ m}$, $b = 160 \text{ m}$, $c = 200 \text{ m}$.
 $s = \frac{a + b + c}{2} = \frac{120 + 160 + 200}{2}$
 $= \frac{480}{2} = 240 \text{ m}$.
Area of field $= \sqrt{s(s-a)(s-b)(s-c)}$
 $= \sqrt{240(240 - 120)(240 - 160)(240 - 200)}$
 $= \sqrt{240(240 - 120)(240 - 160)(240 - 200)}$
 $= \sqrt{240\times120\times80\times40} = \sqrt{120\times2\times120\times2\times40\times40}$
 $= 120 \times 2 \times 40 = 9600 \text{ sq. m}$.
Rate of ploughing 25 paise per sq. m.
 $= \text{Re. } \frac{1}{4} \text{ per sq. m}$.
Cost of ploughing
 $\text{Rs. 9600 \times \frac{1}{4} = \text{Rs. 2400}$.
14. Let the sides of the triangle be
 $a = 25 \text{ x}$, $b = 17 \text{ x}$, $c = 12 \text{ x}$ metres
Perimeter $= 25 \text{ x} + 17 \text{ x} + 12 \text{ x} = 540 \text{ (given)}$
 $\Rightarrow 54x = 540$
 $\therefore x = 549 + 54 = 10$
 $a = 25 \times 10 = 250 \text{ m}$.
 $b = 17 \times 10 \text{ m} = 170 \text{ m}$.
 $c = 12 \times 10 = 120 \text{ m}$.
Semiperimeter $s = \frac{a+b+c}{2} = \frac{540}{2} = 270 \text{ m}$.
 $\Delta = \sqrt{s(s-a)(s-b)(s-c)}$
 $= \sqrt{270(270-250)(270-170)(270-120)}$
 $= \sqrt{270\times20\times100\times150}$
 $= 9000 \text{ m}^2$.
15. $a = 9 \text{ cm}$, $b = 12 \text{ cm}$, $c = 15 \text{ cm}$.
 $s = \frac{a+b+c}{2} = \frac{9+12+15}{2}$
 $= \frac{36}{2} = 18 \text{ cm}$.

.

Area of
$$\Delta = \sqrt{s(s-a)(s-b)(s-c)}$$

 $= \sqrt{18 \times (18-9) \times (18-12) \times 18-15}$
 $= \sqrt{18 \times 9 \times 6 \times 3} = \sqrt{9 \times 2 \times 9 \times 2 \times 3 \times 3}$
 $= 9 \times 2 \times 3 = 54$ sq. cm.
Here $a = 5$ cm, $b = 12$ cm, $c = 13$ cm.
 $s = \frac{a+b+c}{2} = \frac{5+12+13}{2}$
 $= \frac{30}{2} = 15$ cm.

Now area of the

2

16.

$$\Delta = \sqrt{s(s-a)(s-b)(s-c)}$$

= $\sqrt{15 \times (15-5)(15-12)(15-13)}$
= $\sqrt{10 \times 10 \times 3 \times 2}$
= $\sqrt{5 \times 3 \times 5 \times 2 \times 3 \times 2}$
= $5 \times 3 \times 2 = 30$ sq. m.

Again, area of $\Delta = \frac{1}{2} \times \text{base} \times \text{height}$

height =
$$\frac{2 \operatorname{area of } \Delta}{\operatorname{base}} = \frac{2 \times 30}{13}$$

$$=\frac{60}{13}=4.61$$
 cm.

17. Perimeter of Δ = 240 dm. Given two sides of Δ are 50 dm. And 78 dm.
∴ Third side of Δ = 240 - (50 + 78) = 240 - 128 = 112 dm.

$$s = \frac{a+b+c}{2} = \frac{240}{2} = 120$$

Area of the triangular field

$$= \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{120(120-50)(120-78)(120-112)}$$

$$= \sqrt{120 \times 70 \times 42 \times 8}$$

$$= 10\sqrt{4 \times 3 \times 7 \times 7 \times 2 \times 3 \times 2 \times 4}$$

$$= 10 \times 4 \times 3 \times 7 \times 2 = 1680 \text{ sq. } \text{dm} = 16.8 \text{ sq. m}$$
Now area of $\Delta = \frac{1}{2} \times \text{base} \times \text{height}$

$$\therefore \text{ Height} = \frac{2\text{Area}}{\text{base}} = \frac{2 \times 1680}{250}$$

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150 m 1 150

$$=\frac{336}{5} dm = 67.2 dm.$$

Total cost of watering the triangular field at the rate of Rs. 2.75 per 100 m².

$$= Rs. \frac{2.72}{100} \times 16.8$$

$$= Rs. \frac{462}{100} = Re.0.46 = 46 \text{ paise}$$

18. Area of triangular field

$$=\frac{100}{45} \times 900 = 2,000 \text{ sq.m.}$$

Since 2 base = 5 height

$$\therefore \text{ base} = \frac{5}{2} \text{ height}$$

But area of $\Delta = \frac{1}{2} \times \text{ base} \times \text{ height}$

$$2000 = \frac{1}{2} \times \frac{5}{2} \text{ height} \times \text{ height}$$

or (Height)² = $\frac{2000 \times 4}{5} = 400 \times 4 = 1600.$
Height = $+\sqrt{1600} = 40$ metre = 40 cm.
19. Let the other two sides be a cm, b cm, then
 $a^2 + b^2 = (26)^2 = 676$
Also perimeter $a + b + 26 = 60$ given
 $\therefore a + b = 60 - 26 = 34$
Squaring both sides, we get
 $a^2 + b^2 + 2ab = (136)^2$
 $676 + 2ab = 1156 - 676 = 480$
Also $(a - b)^2 = a^2 + b^2 - 2ab$
 $= 676 - 480 = 196$
Adding (ii) and (iii), $2a = 48$ $\therefore a = 24$
From (ii) $24 + b = 34$ $\therefore b = 34 - 24 = 10$.
The other two sides are 24 cm, and 10 cm
Area of the triangle $= \frac{1}{2} \times 10 \times 24 = 120 \text{ sq cm.}$
20. Area of an isosceles Δ

Area of an isosceles Δ

$$\frac{a}{4} \times \sqrt{4b^2 - a^2}$$

where a is the length of the base and b is the length of one of its equal sides

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= 10.

$$60 = \frac{a}{4} \times \sqrt{4(13)^2 - a^2}$$
$$= \frac{a}{4}\sqrt{676 - a^2}$$

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or

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 $60 \times 4 = a\sqrt{676 - a^2}$ $240 = a\sqrt{676 - a^2}$ $(240)^2 = a^2 (676 - a^2)$ Squaring $57600 = 676a^2 - a^4$ $a^2 - 676a^2 + 57600 = 0$ $a^2 - 576a^2 - 100 a^2 + 57600 = 0$ $a^2(a^2 - 576) - 100 (a^2 - 576) = 0$ $(a^2 - 576)(a^2 - 100) = 0$ Either $a^2 - 576 = 0$ $a^2 - 100 = 0$ or \Rightarrow a = + $\sqrt{576}$ = 24 cm $a^2 = 576$ $a = +\sqrt{100} = 10 \text{ cm}$ $a^2 = 100$ \Rightarrow

s = -

Therefore, the length of each of the two equal sides of the isosceles triangle = 24 cm or 10 cm.

We know that area of the triangle whose sides are a, b and c is given by 21.

$$\dot{\Delta} = \sqrt{s(s-a)(s-b)(s-c)}$$
$$a+b+c$$

where

Here

...

22.

$$2''a' = a, \qquad b' = a, \qquad c' = a$$
$$s = \frac{a + a + a}{2} = \frac{3a}{2}$$
$$\Delta = \sqrt{\frac{3a}{2} \left(\frac{3a}{2} - a\right) \left(\frac{3a}{2} - a\right) \left(\frac{3a}{2} - a\right)}$$
$$= \sqrt{\frac{3a}{2} \times \frac{a}{2} \times \frac{a}{2} \times \frac{a}{2}}$$
$$= \frac{\sqrt{3}}{4}a^{2}$$

Are of an equilaternal triangle is

$$=\frac{\sqrt{3}}{4}(\text{Side})^2$$

Rs. 35 is the cost of turfing 100 sq. m Rs. 700 is the cost of turfing

395

$$= \frac{100 \times 700}{35} 2000 \text{ sq. m}$$
Area of triangular field = 2000 sq. m
Let height = x metres
Then Base = $\frac{5}{2} \times \text{metres}$

$$Area = \frac{1}{2} \times \text{Base} \times \text{Height}$$

$$= \frac{1}{2} \times \frac{5}{2} \times \times \times$$

$$= \frac{5}{4} \times^2 \text{ sq. m}$$

$$\therefore \quad \frac{5}{4} \times^2 = 2000 \implies x^2 = \frac{2000 \times 4}{5} = 1600$$

$$\therefore \quad x = +\sqrt{1600} = 40 \text{ m}$$

$$\therefore \quad \text{Base} = \frac{5}{2} \times \frac{5}{2} \times 40 = 100 \text{m}$$
23. Area of rhombus = $\frac{1}{2} \times \text{Product of diagonals}$

$$= \frac{1}{2} \times 24 \times 10 = 120 \text{ cm}^2$$
Again AO = $\frac{1}{2} \times 10 = 5 \text{ cm}$
In right \Delta AOB
AB² = $\sqrt{OA^2 + OB^2}$

$$= \sqrt{(122)^2 + (5)^2}$$

$$= \sqrt{169} = 13 \text{ cm}$$

$$\therefore \quad \text{Perimeters } 4 \times 13 = 52 \text{ cm}.$$
24. Other diagonal = $\frac{2 \text{Area of rhombus}}{Given diagonal}$

$$= \frac{2 \times 60}{12} = 10 \text{ cm}$$
Hence the other diagonal is 10 cm.
25. Let the base of parallelogram = x cm
Then altitude = 2x cm
Area of parallelogram = 72 cm²

Basic Mathematics/Arithmetic's

$$\therefore \quad x \times 2 \ x = 72 \implies 2x^2 = 72$$
$$x^2 = 36$$
$$x = \pm\sqrt{36} = 6 \text{ cm}$$

Area of trapezium = $\frac{1}{2} \times h(a+b)$

or Base of parallelogram = 6 cm and altitude = $2 \times 6 = 12$ cm.

26.

27.

28.

29:

30.

Where h is the height and a, b are the two parallel sides $804 = \frac{1}{2} \times 24(38 + b)$ $38 + b = \frac{804 \times 2}{24} = 67$ b = 67 - 38 = 29 cmLet ABCD be a parallelogram. Area of parallelogram ABCD = 2 area of \triangle ABC Let us find the area of \triangle ABC Let a = 12 cm, b = 10 cm, c = 8 cm $s = \frac{a+b+c}{2} = \frac{12+10+8}{2} = \frac{30}{2} = 15$ cm. $\Delta = \sqrt{s(s-a)(s-b)(s-c)}$ then $=\sqrt{15(15-12)(15-10)(15-8)} = \sqrt{15 \times 3 \times 5 \times 7}$ $r = 15\sqrt{7} \text{ cm}^2 = 15 \times 2.646 \text{ cm}^2 = 39.7 \text{ cm}^2$ Area of parallelogram = 79.4 cm^2 $Diagonal = \frac{2 \times area of quadrilateral}{sum of two offsets}$ $=\frac{2\times495}{(19+11)}=\frac{2}{30}\times495$ $=\frac{495}{15}=33$ dm. Let the offsets be 4x m and 5x m. Area of the quadrilaterl = $\frac{1}{2}$ (diagonal) × (sum of the offsets) $486 = \frac{1}{2} \times 36 \times (4x + 5x)$ $486 \times 2 = 36 \times 9x$ $x = \frac{486 \times 2}{26 \times 0} = 3$ offsets are 4×3 , m 5×3 m. i.e., 12 m. and 5 m. Sum of parallel sides = 85 + 63 = 148 mm. Distance between parallel sides = 36 mm.

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Area of trapezium = $\frac{1}{2}$ (sum of parallel sides) × distance between parallel sides

 $=\frac{1}{2} \times 148 \times 36 = 148 \times 18 = 2664$ sq. mm.

$$=-\frac{2664}{103}=26.64$$
 sq. cm.(: 1 sq cm.=100 sq. mm.)

 $= 3.2 \times \text{first altitude}$

 $= 4 \times$ second altitude

First altitude =
$$\frac{4.0}{-1}$$
 = $\frac{40}{-1}$ = $\frac{5}{-1}$

Required ratio = 5:4.

11 – Income Tax, Insurance and Bankruptcy

The tax levied by the government on the annual total gross income of a person or company at a specified rate is called income tax. Also.

Net income = Gross income – Income tax.

SOLVED EXAMPLES

Example 1: The net income of a person after paying income tax at the rate of 5% is Rs. 5700 What is his gross income?

Solution: Let gross income = Rs. 100

Income tax = Rs. 5

Net income = 100 - 5 = Rs. 95.

If net income is Rs. 95, then gross income

If net income is Rs. 5700 then gross income

$$=\frac{100}{95}$$
 × 5700 = Rs.6000

Example 2: The gross income of a person is Rs. 3000, 10% of his income is exempted from income tax and his net income is Rs. 28000. What is the rate of income tax?

Solution: Gross income = Rs. 30000

Income exempted from income tax

= 10% of gross income

Income on which income tax is chargeable

$$=$$
 Rs. $(30000 - 3000) =$ Rs. 27000

Total income tax paid on Rs. 27000

$$=$$
 Rs. 2000

Rate of income tax = $\frac{2000}{27000} \times 100\%$. = $\frac{200}{27} = 7\frac{11}{27}\%$

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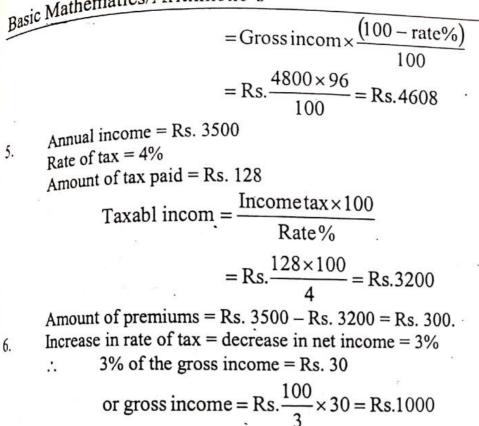
Basic Mathematics/Arithmetic's

Example 3: The assets of a person are Rs. 14000 and he can pay 80 p. in a rupe liability turned up and he can now pay only 70 p. in a rupee. What is the amount of new Solution: In the first case of dividend in a rupee is	399
liability turned up the first area of the only 70 p. in a rune we have 80 p. in a rune	Pe Anatl
Solution: In the first case of dividend in a rupee in	. Another
-80 p 4	" hability?
$= 80 \text{ p.} = \text{Re} \cdot \frac{4}{5}$	
5	
Liphilitie 5	
\therefore Liabilities = $-1 \times 1000 = \text{Rs} \cdot 17500$	
$\therefore \qquad \text{Liabilities} = \frac{5}{4} \times 1000 = \text{Rs.}17500$	
In the second case, the dividend in a rupee	
7	
$= 70 \text{ p.} = \text{Re.} \frac{7}{10}$	
Total liabilities = $\frac{14000 \times 10}{7}$	
10tat fiabilities =	
7	
Hence new liability = $20000 - 17500$	
$= R_{s} 2500$	
Example 4: A man got his house increase l C P	
the cost of the house as well as the premium paid. What is the cost of the house? Solution: Let sum insured = $R_s = 100$	he recovers
Solution: Let august in the premium paid. What is the cost of the house?	ne recovers
Solution: Let sum insured = Rs. 100	
Cost of house actually recovered besides premium paid	
$-100 - 4 = R_{S} - 96$	
If sum insured is Rs. 100, actual cost of the house	
= Rs. 26	
If sum insured in D = COOOO	
If sum insured is Rs. 60000, actual cost of the house	
$=\frac{96}{100} \times 60000$ = Rs 57600	
$=\frac{100}{100} \times 60000$	
= Rs. 57600.	
MCQs	
^{1.} A man's gross income is Rs. 5800. Of this Rs. 3000 is exempted from remaining Rs. 2000 is subject to an income tax at 4 n in the ruppe and	
remaining De 2000 is exempted from	tax. Of the
remaining Rs. 2000 is subject to an income tax at 4 p. in the rupee and at 6 p. in the rupee. How much tax will be pay?	the balance
at 6 p. in the rupee. How much tax will he pay?	
(a) Rs. 120 (b) Rs. 128 (c) Rs. 125 (d) Rs.	130
² . If instend of income to 1	uanaa in tas
⁴ If instend of income tax 4 p. per rupee the tax be at $3\frac{1}{4}$ %. Find the difference of Rs. 3000	rence in tax
on an income of Rs. 3000.	
3. $\binom{(a)}{A} \underset{man^{2}}{\text{Rs. 20.50}}{\text{Rs. 22.50}}$ (b) Rs. 22.50 (c) Rs. 30.50 (d) Rs.	10.50
	1860. Find
his gross income after paying an income tax at 7p. in the rupee is Rs. (a) Rs 1000	1000. 1
$A_{man's}$ (b) Rs. 2000 (c) Rs. 3000 (d) Rs.	4000
A man's net income after paying tax at the rate of 5 p. in the rupee is Rs. (a) p h = h = h = h = h = h = h = h = h = h	4600. what
(a) Rs. 4608 (b) Rs. 4507 (c) Rs. 4306 (d) Rs.	
Rs. 4608 (d) Rs.	4205
(b) Rs. 4507 (c) Rs. 4306 (d) Rs.	
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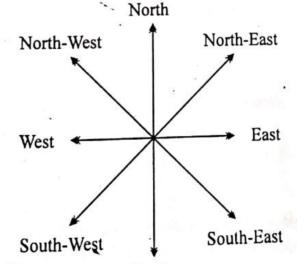
400	Basic Mathematics/Arithmetic's
5.	A man's annual income is Rs. 3500. He pays no income tax on the money paid for premiums. On the remainder he pays Rs. 128 as income tax at 4%. What amount does he pay for premiums?
	(a) $B_{c} = 100$ (b) $B_{c} = 200$ (c) $R_{s} = 300$ (d) $R_{s} = 400$
6.	i da 10 m in a rubee, a man has to pay KS. Sy more
0.	income tax than when it was 7 p. in the rupee. Find his gross medine.
	(a) Rs. 1000 (b) Rs. 2000 (c) Rs. 3000 (d) Rs. 4000
	ANSWERS
1.	(b) 2. (b) 3. (b) 4 (a) 5. (c) 6. (a) ===================================
	EXPLANATION OF DIFFICULT QUESTIONS
1.	Gross Income = Rs. 5800
	Income exempted from tax = Rs. 3000
	Taxable income = $5800 - 3000 = \text{Rs} \cdot 2800$
	Tax on Rs. 2000 at $4\% = 4\%$ of Rs. $2000 = \text{Rs. }80$ Tax on (Rs. $2800 - \text{Rs. }2000$) i.e., Rs. 800 at 6%
	$= \text{Rs.800} \times \frac{6}{100} = \text{Rs.48}$
	Total tax paid = Rs. $80 + Rs.$ $48 = Rs.$ 128.
2.	•
-	
	$= \left((\text{Rs.4} - \text{Rs.3}\frac{1}{4}) \text{ on } \text{Rs.100} \right)$
	$= \text{Rs.} \frac{3}{4} \text{ on Rs.} 100$
	$\frac{3}{1}$
	Difference in income tax $= \frac{3}{4} \times 3000 \times \frac{1}{100} = \text{Rs.}22.50$
3.	Net Income = $Rs. 1860$
	Rate of Tax = 7 p. per rupee or 7%
	\therefore Gross Income = <u>Net income × 100</u>
	$100 \times rate\%$
	$- \mathbf{P}_{s} = \frac{1860 \times 100}{100}$
	$= \text{Rs.} \frac{1860 \times 100}{100 - 7}$
Rug	$= Rs. \frac{1860 \times 100}{93} Rs. 2000$
4.	Gross income in the first case
	Net income×100
	$\{100 - rate\%\}$
κ.	$= Rs. \frac{4560 \times 100}{95} Rs. 4800$
	Net income in the second case
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ANALYSIS

Introduction: If a man stands with his face towards the face his left hand will point towards North' his right hand towards South and his back toward West. The following figure shows the directions correctly.



South

You can attempt this question properly unless you draw a figure on a paper, sometimes the direction, given in the question are different from the normal directions. So draw the figure accordingly.

A starts from his office and walks 3Km towards north. Then he turns right and walks 2 Km and then right ² Km and then right and walks 5 Km then again right and walks 2 Km and then right and walks 2 Km, where is he now from the starting point

(d) in his own office (a) 5 km. (c) 20 km. Akram walks north east and after some distance turns left and walks then again he turns left. In which direction as he going now (a) South and the set and the s (d) North

(a) South West (c) West (b) South

1.

2

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402	Basic Mathematics/Arithmetic's		
3.	A starts and walks towards south, he then turn to his right & walks 5 km then again		
<u>7</u> 7796	left and walks 3 km and then again left and walks 5 km. In which direction is he from		
	the starting point		
	(a) West (b) South (c) North (d) East		
4.	A man drave his can 5 km towards past ward direction. He turned right went for a		
	km then be turned west and drove for 1 km. How far is ne if on the starting point		
	(a) 5 km $(b) 6 km$ $(c) 10 Km$ $(d) 20 km$		
5.	Almom and Bashin start from their office and walk in opposite direction each		
5.	traveling 10 kms. Akram then turns left and walks 10 kms while Bashir turns right		
	and walks 10 kms. How far are they new from each other		
	(a) 20 km (b) 10 km (c) 5 km (d) they are both of the same point		
6	(a) 20 km. (b) 10 km. (c) 5 km. (d) they are both of the same point My house is facing west wards. I start from house and turn left and walk 15 km. Then		
6.	I turn 45° towards right direction & walk 10 metres. In which direction am I from the		
	I turn 45' towards right direction & walk to metres. In the		
	starting point(a) South(b) South East(c) East(d) North East		
7.	(a) South (b) South East (c) East (d) North East I walk 10 metres forward, then I turn towards right and walk 10 metres. Then I turn		
1.	left and walk 5 metres and then again left and walk 15 metres and then at last left and		
	walk 15 metres. At what distance am I from the starting point		
	(a) 10 metres (b) 15 metres (c) 20 metres (d) 5 metres		
8.	The door of my house is towards east. From the backside of my house I drove straight		
0.	100 metres then turned towards right and drove for 100 metres and then turned		
	towards left and drove for 50 metres and reached my destination. At what direction		
	am I from the starting point		
	(a) North West (b) West (c) North (d) East		
	North		
	*		
	ABCD		
	West * Fast		
*			
	SRQP		
	*		
Dire	South		
	The criminals P.O R S who are in the park are to 1		
10			
	position of the policemen and the criminals. Bye lanes are in the North-South and East-		
•			

- 9.
- Who two are positional North-West, South-East? (a) P , A
- (b) B, R 10. If ABCD move four plots in clockwise direction and PQRS move six plots in anti-(c) S, D clockwise direction who two would be in North-South direction (b) R, D
- If all the four policemen and all the four criminals move three plots in clockwise 11. direction. Who would be positioned North-East, South-West (b) C.Q

(c) D, S

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(d) A.P

2

(1

(1 (2

Basic Mathematics/Arithmetic's If the four policemen move two plots clockwise and P, Q, R, S move two plots 12. vertically up. Who will be able to catch whom (a) C, P (b) D, Q (c) A, R (a) C, I If policemen move four plots anti-clockwise and criminals move two plots vertically up. Who two would be North-South 13. (b) A, R (a) B, P (c) A, R (d) D, S A person is going towards South, then turns left then left again then right and then 14. right again. In which direction is he now? (a) North (b) South (c) East (d) West A man was walking facing East then he turned towards right then turned right again. 15. After that he turned about. In which direction was he facing last of all (b) South (a) North (c) East (d) West If a person is in the condition of upside down positions and his face is towards West in 16. which direction will his left hand be (a) North (b) South (c) East (d) West At 12.30 the hour hand of a clock faces North and the minute hand faces South. At 17. 1.45 the hour hand will be in which direction (d) South-West (a) North-West (b) North-East (c) South-East You start from a point A and walk 3 kms. North then turn left and walk 4 km. Then 18. turn left and walk 6 km. Upto the point B what is your direction and how far are you from the point A (c) East; 10 km (d) West: 3 km (b) South, 5 km (a) North; 6 km M and N walk in the clockwise direction and O and P move in anticlockwise 19. direction. Each of them covers 11/2 side of the part. Then M will be: (d) South-East of (b) South-West of P.(c) South-East of N. (a) North-East P. From the position in 0.6. M starts moving in anti clockwise direction and P goes 0. 20. across to the opposite side. Now M will be (d) West of P (c) East of P (b) South of P Now from the position in Q7. N goes to the opposite side and then covers one side in anti-clockwise direction while O and P cover one side in clockwise direction. Now who 21. (d) O and P two are at the same point? (c) M and O Mr. A walks 100 yards straight from his house which is facing north. Then he walks 22. 200 yards in the reverse direction. Then he turns left and walks 100 yards. In which (d) South-West direction is Mr. A from his original position (c) South-East A man started walking from North to South. He turned right at right angles then again right 23. again right at right angles. In which direction was he ultimately walking? (a) Fast (c) North (a) East (b) West (9) a (10) b ANSWERS (l) d (7) d (8) a (20) c (19) b (6) b (18) b (2) a (5) a (17) b (11) d (4) a (3) b (16) a (15) c (12) a (21) c (14) b (13) b (22) c (23) c ============

COMPUTER APTITUDE TEST (Basic Computer Knowledge)

Write the correct answer:

- 1. Expert systems are part of the general area of research known as
 - (a)√ AI (b)ES
 - STUDENT (c) (d) RAND.
 - None of the above (e)
- In the future, users of a computer 2. system may identify themselves by entering a:
 - (a) Hard print Soft print (b)
 - (c) ✓ Voice print (d) Digital
 - (e)None of the above
- 3. The most prominent system in the retail sales industry is the system:
 - (a) \checkmark POS (point-of-scale)
 - COBOL (c) ACM (b)
 - PC/XT (d)
 - None of the above . (e)
 - The integration of the computer with 4. manufacturing is called CIM or
 - (a) CAM (b) CAD
 - $(c)\checkmark$ Computer manufacturing
 - (d) All the above
 - (e) None of the above
 - 5. A purpose computer is designed for a specific application:
 - (a) ✓ Special (b) Analog
 - Hybrid (c) (d) Digital
 - None of the above (e)
 - Actuarial accounting 6. system is associated with the industry:
 - (a)√ Insurance (b) Reliable
 - (c) Consistent (d) Exhaustive
- (e)None of the above 7.
 - Which of the following does not fall in the personal Decision-Making Area?
 - Pay-rolls (a)
 - (b) ✓ (ash flow analysis
 - Income-tax (c) assessment and recovery

11

111

- Person's experience (d)
- None of the above (e)

- A variable that has no physical 8 meaning and is used to obtain an initial basic feasible solution to a linear programming problem is known as:
 - Algorithm (b)Basis (a)
 - Artificial variable (c)
 - (d)√ Basic variable
 - None of the above (e)
- QUB is an example of _____ systems: 9.
 - Problem-solving (a)
 - Inventory (b)
 - (c)√ Electronic shopping
 - Algebra (d)
 - None of the above (e)
- Slack is the calculated time span 10. within which the event must occur: False
 - (a)√ True (b)
 - Cannot be said (c)
 - All the above (d)
 - (e) None of the above
- 11. The latest time that the event can be delayed delaying without completion of the entire project in PERT chart is:
 - (a) Earliest allowable time
 - (b) ✓ Latest allowable time
 - Earliest pass (c)
 - Latest pass (d)
 - None of the above (e)
- i2. How much should an organisation be spend for information can determined by some type of a:
 - (a) Cost analysis
 - Benefit analysis (b)
 - (c) ✓ Cost-benefit analysis
 - (d) Any of the above
 - (e) None of the above
- Anthony suggested that the area of 13. management planning and control be segmented into:
 - (a) **Operational** control
 - (b) Strategic planning
 - Management control (c)
 - $(d) \checkmark$ All of the above
 - (e)None of the above Scanned with CamScanner

405

- A transportation problem in which the total supply available at the origins 14. exactly satisfies the total demand required at the destinations is known as:
 - Degenerate solution (a)
 - (b) Balanced transpiration problem
 - Unbalanced transpiration (c) problem
 - All the above (d)
 - None of the above (e)
- Operations Research came into being 15. due to:
 - Medical reasons (a)
 - (b)√ Military reasons
 - Educational reasons (c)
 - (d) To improve transpiration
 - None of the above (e)
- The funds management subsystems 16. attempts to:
 - (a) Increase cash input
 - (b) Decrease cash output
 - (c) ✓ Balance cash inflow with outflow
 - (d) All the above
 - (e) None of the above
- 17. A turnaround document can be a(n):
 - (a) Punched card
 - (b) OCR document
 - (c)√ Neither (a) nor (b)
 - (d) None of the above
- 18. In the financial Decision-Making system which of the following is not a transaction processing system input:
 - (a) Cash receipts
 - (b) Cash returns
 - (c) Cash issues
- (d) ✓ Warehouse requisition ship
- None of the above 19
 - Header labels contain:
 - (a)√ Creation data
 - Control totals (c)
 - Both (a) and (b) (d)
 - Either (a) nor (b) (e)
- 20. None of the above
 - Detected money errors are corrected (a)
 - (b)
- Debit entries Credit entries

- (c) \checkmark Both (a) and (b)
- Neither (a) nor (b) (d)
- (e) None of the above
- 21. The model base contains programs:
 - (a) Written by the firm's programmers
 - Provided by the (b) computer vendor
 - Purchased from outside firms, (c) such as software houses
 - (d) \checkmark All of the above
 - None of the above (e)
- 22 Management has become more complex because:
 - (a) There is less time to react to competitive actions
 - (b) The equipment used in many of the firm's activities has become more complex
 - Firms have become larger (c)
 - $(d)\checkmark$ All of the above
 - None of the above (e)
- What data most likely would not be 23. keyed into the order entry subsystem?
 - Item quantity (a)
 - Customer number (b)
 - Item number (c)
 - (d)√ Item cost
 - None of the above (e)
- change The engineering control 24. system makes changes in the:
 - (a) ✓ Operations file
 - Production schedule (b)
 - Work force data (c)
 - All the of above (d)
 - (e) None of the above
- Corporate modeling software can be 25. used for:
 - Cash planning (a)
 - Operational budgeting (b)
 - Capital budgeting (c)
 - (d)√ All the above
 - None of the above
 - The receiving data system involves
 - which of the following files?
 - Vendor (b) Inventory (a)
 - Purchasing (c)
 - (d) ✓ All the above
 - None of the above (e)

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26.

Computer - MCQs

	Fator MICQS		
27.	A Monte Carlo simulation is an	1	41
	example of a(n):		(b) Providing corporate models for long range planning
	(a) Static model		long range planning
			(c) Causing managers to think
	I model		(d) All of the above
	()(0)		(e) None of the above
	(d) \checkmark Neither (a) nor (b)	33.	A period report can be used to:
20	(e) None of the above		(a) ✓ Identify the problem
28.	Marketing planning is concerned with:		(b) Evaluate solutions
	(a) Planning the amount and		(c) Identify solutions
	placement of newspaper ads		(d) Select solutions
	(b) Planning consignment sales	100000	(e) None of the above
	contracts to be offered	34.	The marketing mix does not include:
	(c) Planning sales force size and		(a) Place (b) Product
	deployment		(c) ✓ Persuasion (d) Promotion
	(d) All the above		(e) None of the above '
•	(e) None of the above	35.	A pricing strategy model would
29.	internet internet		function most effectively as a:
	comes from information produced		(a) Transaction processing model
	from:		(b) Batch model
	(a) Data describing what will		(c) ✓ Time sharing model
	happen in the future		(d) Real time model
	(b) Data describing what has	12 12	(e) None of the above
	happened in the past	36.	Which of the following is not a
	(c) Data describing what is	8	quotation system procedure set?
	happening now		(a) ✓ Delivery planning
	$(d) \checkmark (a) and (b)$		(b) Product data retrieval.
20	(e) None of the above		(c) Quotation preparation
30.	Data collection terminals:		(d) All of the above
· (4)	(a) Track the flow of materials nom		(e) None of the above
	one production area to another	37.	How much should an organisation
	(b) Record employee attendance		spend for information can be
	(c) Record start and stop of		determined by some type of a:
· • •	production steps		(a) Cost analysis
÷ /	(d) All the above		(b) Benefit analysis
÷.	(e) one of the above	1.3	(c) ✓ Cost-benefit analysis
31.	Marketing research does not normally	1	(d) Any of the above
d. 17-1	(a) Gather environmental	8 12 8 12	(a) N. Cilashava
1	information	38.	The files required to maintain general
	(b) ✓ Provide a continuous source of	1	ledger records include:
1	information		(a) Inventory file
•	(c) Relate to all aspects of		(b) ✓ Detail posting file
· .	marketing operations		(c) Chart of accounts file
	(d) Describe the current situation		(d) All the above
6. ⁻ 1 A	(e) None of the above	. *	(e) None of the above
32.	Computing systems can provide	39.	(e) None of the above A quotation system obtains potential delivery time data from the:
	strategic information by:	39.	delivery time data from the:
	(a) Making decision analysis	· · · · ·	i la file
	possible		(a) Production schedule ind (b)√ Inventory (c) Product
	the state of the s		(b) miventory (c)
			(d) All of the above

Computer - MCO:

- (c) None of the above
- 40. The product structure file is also called the:
 - (a) Item master file
 - (b) ✓ Bill of materials file
 - (c) Operation file
 - (d) All of the above
 - (c) None of the above
- 41. MRP stands for:
 - (a) Management resource planning
 - (b) Marketing research planning
 - (c) Manufacturing resource planning
 - (d) ✓ Material requirements planning
 - (e) None of the above
- 42. CBCT stands for:
 - (a) Customer bank credit terminal
 - (b) Commercial banking credit terminal
 - (c) ✓ Customer bank communication terminal
 - (d) Commercial bank communication terminal
 - (e) None of the above
- The computer can potentially be used to monitor most of our actions, thus robbing us of:
 - (a) Tapping (b) ✓ Privacy
 - (c) Back log (d) Security
 - (e) None of the above
- 4. If you are an information system manager, which organization is most appropriate for your interest?
 - (a) ACM (b)√ SIM
 - (c) ASA (d) IEEE
 - (e) None of the above
- 5. The employee profile report is used by:
 - (a) The manager
 - (b) The individual department
 - (c) The personnel department
 - (d) ✓ All of the above (e) None after the

6.

- (e) None of the above
- The accident file is commonly updated in the:
 - (a) ✓ Accident and claims data
 (b) Parametic
 -) Payroll system

- (c) Employment control reporting system
- (d) Personnel activity reporting system
- (c) None of the above
- 47. attempt to provide the same judgmental advice that human experts such as doctors provide;
 - (a)✓ ES (b) DA1
 - (c) KBS (d) RAN
 - (c) None of the above
- 48. Working at home might seem like an interesting option. However, <u>Contact with other co-workers</u> does have advantages;
 - (a) Teleconferencing
 - (b) Communication
 - (c) ✓ Face-to-face
 - (d) Top-to-bottom
 - (c) None of the above
- 49. The model curriculum for information system education suggested by the has a more theoretical and conceptual basis, whereas the model by the ______ is more practical and applied in nature:
 - (a) ALES (b) KBS. A1
 - (c) ✓ ACM, DPM
 - (d) SISD, MIMD
 - (c) None of the above
- 50. There are several careers within data processing operations, including data entry operator:
 - (a) ✓ Computer operator
 - (b) Programmer
 - (c) System analyst
 - (d) Key-punch operator
 - (e) None of the above
- 51. If the values carliest time and latest time of an event are not equal then such events are referred to as:
 - (a) Critical (b) Optimum
 - (c) ✓ Non-critical
 - (d) All of the above
 - (c) None of the above
- 52. The is a business oriented data processing association, which publishes a monthly journal, data management:

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Computer - MCQs

- CDP (b) (a)√ DPMA ACM (d) CISA (c)
- None of the above (e)
- Is an application of the computer 53. where the computer makes decisions or judgments that appear to required reasoning and intuition, human intelligence?
 - (a)√ AI (b) ES
 - Base-rule (d) (c) KBS
 - None of the above (e)
- before it can be 54. Data has to be converted into information:
 - Transformed (b) ✓ Processed (a)
 - Engineered (c) Changed (d)
 - (e) None of the above
- 55. Sales invoicing is a:
 - (a) ✓ Pre-sales activity
 - Job of finance department (b)
 - (c) Past-sales activity
 - (d) All of the above
 - None of the above (e)
- 56. Which of the following is not a major subsystem part providing an opportunity for system design controls?
 - Data base (a) (b) Model base
 - (c) (a) and (b)
 - (d) ✓ Neither (a) nor (b)
 - (e) None of the above
- Sensitivity Analysis is the ability to 57. perform:
 - (a) ✓ What-if analysis
 - (b) If-so analysis
 - What-then analysis (c)
 - (d) And-or analysis
 - None of the above (c)
- 58. The word 'linear' in linear programming is used to describe:
 - Relationship among two or (a) more variables in a straight line
 - (b)√ Relationship among two or more variable, which directly proportional are (c)
 - Relationship among two more variables is linear or (d)
 - All of the above (e)
- None of the above 59. EDP auditors can be used in the:

- Implementation phase of MI (a) development
- Planning phase (b) 07 MIS development
- Analysis and design phase d (c) MIS development
- (d) \checkmark All of the above
- None of the above (e)
- Which of the following usually 60. receives formal education on their role in the MIS?
 - Government (a)
 - Stock holders (b)
 - Both (a) and (b) (c)
 - (d) \checkmark Neither (a) nor (b)
 - None of the above (e)
- A system must be composed of more 61. than one:
 - (b)√ Element Subsystem (a)
 - (c) Super system
 - (d) All of the above
 - (e) None of the above
- 62. Information about the items ordered (item description, price, warehouse location, etc. is provided by the:
 - (a) Order entry subsystem
 - information (b) ✓ Manufacturing system
 - Marketing information system (c)
 - (d) Billing subsystem
 - (e) None of the above
- The question "what" can be answerd 63. by?
 - Observation (a) (b) Survey
 - Controlled experiment (c)
 - (d) ✓ All of the above
 - (e) None of the above
- Firms have been engaged in marketing 64. research for:
 - Only the past ten years (a)
 - (b) Twenty-five years
 - (c) Fifty years
 - (d)√ Over fifty years
 - (e) None of the above
- is maintenance cost is \$50, and annul sale are 20 65. sale are 20 units, EOQ is:
 - (b)√ 40 (a) 20 160
 - (c) (d) 80

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409	The operations file is updated by the:		Come
66.	Beaduction Control Systems	73.	Computer - MCQs
	(a) ADD system		From a data system design viewpoint, the number of different tempoint.
	(U) Chimping system		the number of different types of general ledger entries is:
	(c) Shipping system (d) \checkmark All of the above		general ledger entries is: (a) Six
	U Mana of the above		(c) Four (b) Three
	(e) None of the above Credit checking is done in the:	10.00	(e) One of the at
67.		74.	
			Invoices are deleted from the invoice detail file by the:
			 (a) ✓ Cash receipts subsystem (b) Execution procedure
			procedures of
0.0100000			accounts (c) Sales analysis system
68.	The coordinating procedure set in an		
	order processing system is:		
	(a) Custom production planning	75.	
	(b) Warehouse		The pending invoice file should be
	(c) Product allocation		stored on a DASD (Direct Access
	(d) All the above		Storage Device) if: (a) Payment execution is batch
	(e) ✓ None of the above		
69.	One of the purchases order system's		
	procedure sets is:	1	(c) ✓ Inquiries concerning payable are to
	(a) Automatic purchase order		(d) All of the above
	writing		(e) None of the above
	(b) Receiving	76.	
	(c) Accounts payable	,	One of the three most common types of payment systems is the:
	(d) All of the above		(a) Pinion fund transaction system
	(e) None of the above		(b) Travel expense reimbursement
70.	A relating business involves which of		system
	the following functions?		(c) Accounts payable systems
	(a) Engineering	8041 ×	(d) All of the above
	(b) Maintenance		(e) None of the above
	(c) Plant operations	77.	Data integrity refers to:
	(d) All of the above		(a) The simplicity of data
~.	(e) None of the above		(b) The privacy of data
71.	The file key of the fixed assets file		(c)✓ The validity of data
	includes the:		(d) The security of data
	(a) Fixed asset account number	Trans a survey	(e) None of the above
	asset account number	70	A skills search requires that the
	(c) Acquisition date	78.	employee file be accessible by:
	(c) Asset identification number		
22	(a) - opiciation account number	2011-01-02	file.
72.		der telde	1 11
	The journal voucher file includes: (a) General ladar		- 1
	ledger accounts	Population and	None of the above
	(b) involved (c) Data of entry Rupees market		to personnel maters in
	(c) Data of entry	79.	a state i chatac i la la state
	(e) All of the above	631345	
	None of the above		
			Act Scanned with CamScanner

Computer meter		410
(c) Office Standard Help	85. The major res	sponsibilities of the d_{ata}
Agreement		
(d) Office Staff Half Administration	following exce	ept: ue
(e) None of the above	(a)√ Analyzi	ng application systems
80. Personnel activity reports are	(b) Advisin	g programmers
produced from the:	(c) Designin	ng data base
(a) \checkmark Personnel transactions file		oing data dictionaries
(b) Employee file		the above
(c) Applicant file	86. Which of the	following is(are) true of
(d) Jobs files	system analys	is?
(e) None of the above	(a) Their	responsibility is to
81. An excellent linear programming	analyze	and design system
software package for solving large-	software	
scale problem is:	(b) They ma	ay be looked upon as an
(a) MIDAS-2	intermed	liate between users and
$(b) \checkmark OPHELIE II$	program	
(c) PDQ/LP	· · ·	e heavily involved with
(d) All of the above		stem-development file
(e) None of the above		stem-development lik
82. Logical model from the basis for	cycle	->
computing systems that generates	(d)√ (b) and (
information useful in dealing with:		the above
(a) Dynamic situations		ho has a high-school
(b) Uncertain situations	-	ld be least likely to
(c) Complex situations	obtain which o	of the following job?
(d) All of the above	(a) Data ent	ry operator
(e) None of the above	(b) Librarian	1 -
83. Computing systems most often	(c) Compute	er operator
facilitate planning because they:	(d)√ F₁∽gram	mer
(a)√ Make it possible to take into		the above
account many possibilities in an	88. Which of the f	following is(are) true of
uncertain situation	an artificial int	elligence system?
(b) Make it possible to solve	$(a)\sqrt{1}$ It is com	nputer application where
complex problems		iputer applications decisions
(c) Enable an appropriate data	the con	nputer makes decisions
processing system to provide	or judgn	ient in a it is
answers quickly	(b) It is	infallible since it is
(d) All of the above	0.0 menuto	wheed
(e) None of the above	(c) Ultimate	ely, it is excepted ^N
84. Which of the following abilities is/are	replace	professionals such as
required for both system programmer	doctors	
and the EDP auditor?		the above
(a) ✓ Knowledge in computer science		
	89. The storage of	townrootan.
(b) Knowledge in accounting applications	69. The storage of	computer public of a
(c) Two of the above	uata mes are u	lic response
	(a) Libraria	n state for
C C	(b) Compute	er operator
(e) None of the above	(c) Data ent	ry operator
(c) none of the above	(d) Program	
1000 H.S. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		vith CamScanner

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- None of the above (e)
- is responsible for the design Α____ 90. and control of a company's database:
 - (a)√ DBA (b)DBM
 - DPMA (c)
 - EDP auditor (d)
 - None of the above (e)
- assist traditional auditors both 91. in the review of computer controls and in the production of audit information through the use of computers:
 - (a) CDP (b) CISA
 - DPMA (c)
 - (d)√ EDP auditor
 - (e) None of the above
- The analysis and design of application 92. system are the responsibility of a
 - (a) Computer operator
 - Programmer (b)
 - (c)√ System Analyst
 - Data entry operator (d)
 - None of the above (e)
- 93. write computer programs that perform jobs specified by the user:
 - (a)√ Programmer
 - (b) Data entry operator
 - (c) System analyst
 - Computer operator (d)
- (e) None of the above 94.
 - Which of the following is not likely to occur in the near future?
 - (a) The presidential election will be done by pushing buttons at home
 - (b)√ The political issue of establishing an information assistance program will be raised (c)
 - Most workers will choose working at home, SO the traditional work place will disappear (d)
 - Automation will reduce job opportunities thus resulting in a lower standard of living

(e)

- None of the above 95 Which of the following is most responsible for the inability auditors to uncover computer crimes? of The auditor's lack of knowledge in computer technology (b)√ The prohibitively expensive audit procedures needed to detect computer frauds The client's concern that the (c) public will learn of the crime (d) The relatively system average take of computer frauds None of the above (e) 96. Zani's framework of effective MIS argues that MIS can only be designed in a: (a)√ Top down fashion Coordinative fashion (b) By managerial participation (c) (d) Bottom up None of the above (e) 97. Critical path of the PERT chart is: (a) ✓ Path which takes the longest time to complete the project The shortest path (b) Both of the above (c) Path, which takes the shortest (d) time to complete the project (e) None of the above PERT and CPM are: 98. Network techniques (a) Assignment techniques (b) (c) ✓ Project evaluation techniques All of the above (d)
 - (e) None of the above
- 99. Hungarian method is a way of solving Operations Research problem in:
 - Programming by Linear (a) Graphical Method
 - Simplex Method (b)
 - (c)√ Assignment Method
 - Transportation Method (d)
 - None of the above (e)

- 100. The following methods are used in transpiration models of operations research:
 - Vogel's Approximation Method (a)
 - (b) · North West Corner Method
 - Least Cost Method (c)
 - $(d) \checkmark All of the above$
 - None of the above (e)
- 101 . A constraint that does not affect the
- feasible solution region is known as: (a)√ Redundant constraint
 - Unbounded solution
 - (b)
 - Slack variable (c)
 - Surplus variable (d)
 - (e) None of the above
- 102. In the graphical model of linear programming the region defined by the constraints and the non-negative restrictions is the:
 - Non-negativity restrictions (a)
 - Objective functions (b)
 - (c) ✓ Feasible solution region
 - Constrains (d)
 - None of the above (e)
- 103. A model in which one physical property is used to represent another physical property is known as:
 - (a) \checkmark Analog model
 - Deterministic model (b)
 - (c) Iconic model
 - Decision theory model (d)
 - (e) None of the above
- 104. All mathematical models generally comprise which of the following types of variables:
 - (a) Uncontrollable variables
 - (b) Dependent variables
 - (c) Decision variables
 - (d) \checkmark All of the above
- (e) None of the above
- 105. Inventory is also referred to as:
 - (a)√ Stock
 - (b) Warehouse capacity
 - Materials (c)
 - Materials in hand (d)
 - None of the above (e)

- General ledger is also referred to as: 106.
 - Main ledger (a)
 - Extra ledger (b)
 - (c)√ Nominal ledger
 - All of the above (d)
 - None of the above (e)
 - The process of starting or restarting a 107. computer system by loading instructions from a secondary storage device into the completer memory is called:
 - (b) ✓ Booting Duping (a)
 - Padding (c)
 - All of above (d)
 - Who invented the microprocessor? 108.
 - (a)√ Marcian E Huff
 - Herman H Goldstein . (b)
 - Joseph Jacuard (c)
 - None of these (d)
 - 109. One computer that is not considered a portable computer is:
 - (a) ✓ Minicomputer
 - A laptop computer (b)
 - Main computer (c)
 - None of these (d)
 - 110. The accuracy of the floating-point numbers representable in two 16-bit words (a computer is approximately
 - 16 digits (b)√ 6 digits (a)
 - (c) 9 digits
 - (d) All of above
- 111. A dumb terminal has:
 - An embedded microprocessor (a)
 - (b) Extensive memory
 - (c) Independent processing
 - (d) ✓ A keyboard and screen
- 112. Plotter accuracy is measured in terms of repeatability and:
 - (a) Buffer size
 - (b)√ Resolution
 - (c) Vertical dimensions
 - (d) None of these
- 113. Daisy wheel printer is a type of:
 - (a) Matrix primer
 - (b)√ Impact printer
 - (c) Laser printer

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- 114. The number of records contained within a block of data on magnetic tape is defined by the:
 - Block definition (a)
 - Record contain clause (b)
 - (c)√ Blocking factor
 - (d) Record per block factor
- 115. Serial access memories are useful in applications where:
 - Data consists of numbers (a)
 - (b) Short access time is required
 - (c) Each stored word is processed differently
 - (d)√ Data naturally needs to flow in and out in a serial form
- 116. Which of the following memories must be refreshed many times per second?
 - (a) Static RAM
 - (b) ✓ Dynamic RAM
 - (c) EPROM (d) ROM
- 117. The memory which is programmed at the time it is manufactured:
 - (a)√ ROM (b) RAM

(c) PROM (d) **EPROM**

- 118. Which of the following memory medium is not used as main memory system?
 - (a) Magnetic core
 - (b) Semiconductor
 - (c)√ Magnetic tape
 - (d) Both (a) and (b)
- 119. Registers, which are partially visible to users and used to hold conditional, are known as:
 - (a) PC
 - (b) Memory address registers
 - (c) ✓ General purpose register
- Flags (d)
- 120. One of the main feature that distinguish microprocessors from micro-computers is:
 - (a) Words are usually larger in microprocessors
 - (b) Words are microprocessors

- (c)√ Microprocessor does contain (I/O) input/output devices
- (d) Exactly the same as the machine cycle time
- 121. The least significant bit of the binary number, which is equivalent to any odd ,decimal number, is:
 - (a)√ 0 (b)
 - (c) 1 or 0 (d) 3
- 122. Which type of control pins are needed in a microprocessor to' regulate traffic on the bus, in order to prevent two devices from trying to use it at the same time?
 - (a) Bus control
 - (b) Interrupts
 - $(c) \checkmark$ Bus arbitration
 - (d) Status
- 123. When was the world's first laptop computer introduced in the market and by whom?
 - (a) Hewlett-Packard
 - (b)√ Epson, 1981
 - Laplink traveling software in (c) 1982
 - Tandy model-2000, 1985 (d)
- 124. The first microprocessor built by the Intel Corporation was called:
 - 8008 (a) (b) 8080
 - (c)√ 4004 8800 (d)
- 125. Who built the world's first electronic calculator using telephone relays, light bulbs and batteries:
 - Claude Shannon (a)
 - Konrard lues (b)
 - (c)√ George Stibits
 - (d) Howard H. Aiken
- 126. Who developed a mechanical device in the 17th century that could add, subtract, multiple, divide and find square root?
 - Babbage (b) Napier
 - (a) (d)√ Leibniz Pascal

127. The digital computer was developed

primarily in: (b) Japan USSR (a)

Computer – MCQs

UK (d) (c) ✓ USA 128. An integrated circuit is: (a) A complicated circuit (b) An integrating device exhibited? (c) • Consisting on a single transistor 1820 (a) (d)√ Fabricated on a tiny Silicon chip (c)√ 1855 129. Most important advantage of an IC is was 136. Which its: minicomputer Easy replacement in case of (a) introduced? circuit failure (a)√ PDP-I, 1958 $(b)\checkmark$ Extremely high reliability (b) Reduced cost (c) (c) (d) Low powers consumption (d)130. The first machine to successfully UNIVAC is: 137. perform a long series of arithmetic and logical operations was: (b)√ Mark-I (b) ENIAC (a) (c) Analytic Engine (c) **UNIVAC-1** (d) (d) 131. In the third Generation of computers: Distributed data processing first (a) (a) became popular (b) An operating system was first (b) developed (c) High level procedural language (c) Memory were- first used (d)√ Compact (d)√ Online real time systems first Memory become popular 139). ALU is: 132. A IBM System/38 represents the computer class of: (b) (a) ✓ Small scale computer (c) Medium scale computer (b) (d) (c) Large scale computer 140. VGA is: Super computer (d) 133. The first firm to mass-market а microcomputer as а personal computer was: (c) IBM (a) (d) Super UNIVAC 141. IBM 1401 is: (b) (c)√ Radio Shaks (a) Data General Corporation (d) 134. A digital computer did not score over (c) an analog computer in terms of: (d) (a) Speed 142. MSI stands for: (b) ✓ Accuracy Reliability (d) Cost (c)

135. In 1830, Charles Babbage designed a machine called the analytical engine. which he showed, at the parts exhibition. In which year was ,it

(b) 1860

- (d) 1970
- the world's first when was i and

 - IBM System/36, 1960
 - PDP-II,1961
 - VAX 11/780, 1962
 - (a) ✓ Universal Automatic Computer
 - Universal Array Computer
 - Unique Automatic Computer
 - Unvalued Automatic Computer
- 138. CD-ROM stands for:
 - Compactable Read
 - Memory b- Compact Data Read Only Memory
 - Compatible Disk Read Only
 - Only Disk Read
 - (a) ✓ Arithmetic Logic Unit
 - Array Logic Unit
 - Application Logic Unit
 - None of above
 - (a) ✓ Video Graphics Array
 - (b) Visual Graphics Array
 - Volatile Graphics Array
 - Video Graphics Adapter
 - First Generation Computer
 - (b) ✓ Second Generation Computer
 - Third Generation Computer
 - Fourth Generation Computer
 - (a)√ Medium Scale Integrated Circuits

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415 (b) Medium System Integrated	
(b) Medium System integrated	(d) Ameri
Circuits	- unicit
(c) Medium Scale Intelligent	150. Which of
Circuit	generation of
(d) Medium System Intelligent	(a) ✓ EDSA
Circuit	(c) CDC-1
143. The capacity of 3.5 inch floppy disk	151. Chief compo
is:	computer wa
(a) 1.40 MB (b) 1.44 GB	(a) Transis
(c) 1.40 GB (d) \checkmark 1.44 MB	(b) ✓ Vacuur
144. The first computer introduced in	(c) Integra
Nepal was:	(d) None o
(a) IBM 1400 (b) ✓ IBM 1401	152. FORTRAN is
(c) IBM 1402 (d) IBM 1402	(a) File Tra
145. WAN stands for:	(b) Format
(a) Wap Area Network	(c)√ Formula
(b) ✓ Wide Area Network	(d) Floppy
(c) Wide Array Net	153. EEPROM star
(d) Wireless Area Network	(a)√ Electric
146. MICR stands for:	Program
(a) ✓ Magnetic Ink Character Reader	Memory
(b) Magnetic Ink Code Reader	(b) Easily E
(c) Magnetic Ink Cases Reader	Read Or
(d) None of these	(c) Electror
147. EBCDIC stands for:	. Program
(a)√ Extended Binary Coded	Memory
Decimal Interchange Code	(d) None of
(b) Extended Bit Code Decimal	154. Second Gene
Interchange Code	developed dur
(c) Extended Bit Case Decimal	(a) 1949 to $(1) < 1056$ to
Interchange Code	(b)√ 1956 to (c) 1965 to
(d) Extended Binary Case Decimal	
148 Interchange Code	
BCD is:	155. The computer (a)√ First Ge
(a) ✓ Binary Coded Decimal	()
Dit Coded Decimal	
Binary Coded Digit	
149. ASCU at Coded Digit	(-)
(a) stands for:	156. Microprocesso
Stable Code for	are for which (a) First Ge
(b) International Interchange	diagond.
Standard Case for	
(c) Institutional Interchange .	(c) Third O
I Standard Code IOF	(d)√ Fourth (157. Which of the
Information Interchange	157. Which of the be used to dire
and interchange	be used to and
	Scan

Computer - MCQs ican Standard Code for hange Information, the following is first of computer: ACV (b) IBM-1401 1604 (d) ICL-2900 ponent of first generation as: stors Im Tubes and Valves ated Circuits of above S: anslation t Translation la Translation Translation and for: cally Erasable mmable Read Only y Erasable Programmable Only Memory nic Erasable mmable Read Only Y f the above eration computers were ring:

- 1955
- 1965
- b 1970
- 1990
- r size was very large in:
 - eneration
 - Generation
 - Generation
 - Generation
 - sors as switching devices
- generation computers: eneration
 - Generation
 - Jeneration
 - Generation
 - ne following devices can
- ectly image printed text?

muter -MCOs

Comput	er – MCQs
(a)√ OCR (b) OMR
	MICR (d) All of above
	he output quality of a printer is
	heasured by:
	a) Dot per inch
	b) ✓ Dot per s. inch
	c) Dots printed per unit time
	d) All of above
•	n analog computer:
	(a) Input is first converted to digital
00	form
((b)√ Input is never converted to
	digital form
	(c) Output is displayed in digital
•	form
	(d) All of above
160.	In latest generation computers, the
	instructions are executed:
	(a) Parallel only
	(b) Sequentially only
	(c) ✓ Both sequentially and parallel
101	(d) All of above
161.	Who designed the first electronics
	computer - ENIAC?
	(a) Van-Neumann (b) Joseph M. Jacuard
	 (b) Joseph M. Jacuard (c) ✓ J. Presper Eckert and John W
	Mauchly
	(d) All of above
162	Who invented the high level
102.	language?
	(a) ✓ Dennis M. Ritchie
	(b) Niklaus Writh
	(c) Seymour Papert
112	(d) Donald Kunth
163.	Personnel who design; program;
	operate and maintain computer
	equipment refers to:
	(a) Console-operator
	(b) Programmer
	(c) ✓ People-ware
	(d) System Analyst
164.	When did arch rivals IBM and Apple
	Computers Inc decide to join hands?
	(a) 1978 (b) 1984
	(a) 1978 (b) 1984

(-)	1770	(0)	1984
(c)	1990	(1) (
(0)	1990	(d)	1001

416 165. Human beings are referred to as Homosapinens, which device is called Sillico Sapiens? Hardware Monitor (b) (a) (d)√ Computer Robot (c) 166. An error in software or hardware is called a 'bug. What is the alternative computer jargon for it? Leech (b) Suid (a) (d)√ Glitch Slug (c) 167. Modern Computer are very reliable but they are not: Powerful (b) (a) Fast (d) (c)√ Infallible Cheap 168. What is the name of the display feature that highlights are of the which requires operator screen attention? Pixel (a) (b) ✓ Reverse video Touch screen (c) (d) Cursor 169. 1MB launched its first personal computer called IBM-PC in 1981. It had chips from Intel, disk drives from Tandon, operating system from Microsoft, the printer from Epson and the application from software everywhere. Can you name the country which contributed the video display? (a) Japan China (b) (c) Germany (d)√ Taiwan 170. Personal computers use a number of chips mounted on a main circuit board. What is the common name for such boards? (a) Daughter board (b) ✓ Motherboard (c) Father board (d) Breadboard 171. The subject of cybernetics deals with

- the science of:
 - (a) Genetics
 - Control and communications (b)√
 - (c) Molecular biology

417 Biochemistry

- 172. What is meant by a dedicated
 - computer? Which is used by one person (a) only
 - $(b)^{\checkmark}$ Which is assigned .one and only one task
 - Which uses one kind of (c) software
 - Which is meant for application (d) software
- 173. The system unit of a person computer typically contains all of the following except:
 - Microprocessor (a)
 - (b) Disk controller
 - Serial interface (c)
 - (d)√ Modem
- 174. A computer program that converts an entire program into machine language is called a/an:
 - (a) Interpreter (b) Simulator
 - (c)√ Compiler (d) Commander
- 175. A computer program that translates one program instructions at a time into machine language is called a/an:
 - (a)√ Interpreter (b) CPU
- (c) Compiler (d) Simulator
- 176. A small or intelligent device is so called because it contains within it a:
 - (a) Computer
 - (b) Microcomputer
 - (c) Programmable
 - (d)√ Sensor
- 177. Which of the following is not a Programming language? (a)
 - Basic (c)✓ LASER (b) FORTRAN
- 178. The technical term not related to computer systems: (a) Virus
 - (b)
 - Winchester Disk (c) Mouse
- 179. Fox Pro is: (d)√ FIFO System
 - A medicine

- (b) A disease
- (c) ✓ A Computer Language
- (d) A animal
- 180. Super Computer was invested by:
 - (a) ✓ J.H. Van Tassel
 - J.C Perrier (b)
 - (c) W.L Judson
 - (d) A. J. garnering
- 181. Which of the following terms in not associated with computers?
 - (a) ✓ Frank land reaction
 - Data base (b)
 - Windows (c) Binary (d)
- 182. The special files of DOS are:
 - COM (b) EXE (a)
 - $(d)\checkmark$ All of these BATCH (c)
- 183. "Binary Codes" as used in computer sciences are codes made up of which of the following two numbers?
 - (a) 0 and 9(b) 1 and 3
 - $(c) \checkmark 0 \text{ and } 1$ 9 and 1 (d)
- 184. Bill Gates is more well-known as:
 - (a) The CEO of apple Macintosh
 - The CEO of IBM (b)
 - (c)√ The owner of Microsoft Corporation
 - (d) The inventor of the personal computer
- 185. Which of the following is the unit to express the memory of a computer?
 - (a) Compiler (b) Bus
 - (c) ✓ Byte (d) Clone
 - (e) CAD
- 186. Which one of the following characteristics is absent in a computer, however sophisticated it may be?
 - High speed (a)
 - (b)√ Intelligence
 - Accuracy (c)
 - Perfect Memory (d)
- 187. The ALU of a computer responds, to the commands coming from:
 - Primary memory (a)
 - (b)√ Control section
 - External memory (c)
 - Cache memory (d)

Computer - MCOs

Computer - MCQs
188. The act of retrieving existing data
from memory is called:
(a) Read-out (b) Read from
(c) Read (d) \checkmark All of above
189. All modern computer operate on:
(a) Information
(b) Floppies
(c) Data (d) Word
190. Instructions and memory address are
represented by:
(a) Character code
(b) ✓ Binary codes
(c) Binary word
(d) Parity bit
191. Which of the following code used in
present day computing was developed
by IBM Corporation?
(a) ASCII
(b) Hollerith Code
(c) Baudot Code
(d) ✓ EBCDIC Code
192. What is the latest write-once optical
storage media? (a) Digital paper
(b) Magneto-optical disk
(c) WORM disk
(d)√ CD-ROM disk
193. The most important advantage of a
video disk is:
(a) Compactness
(b) ✓ Potential capacity
(c) Durability
(d) Cost effectiveness
194. What is the number. of read-write
heads in the drive for a 9-trac magnetic tape?
(a)√ 9 (b) 16
(c) 18 (d) 27
195. Before a disk drive can append
icolu, a complitor mas
What information does this address. specify?
(a) Track number
(D) Sector number
(c) Surface number.

(d) \checkmark All of the above 196. As compared to diskettes, the here (a) \checkmark More expensive (b)More portable (c) Less rigid Slowly accessed (d) 197. Floppy disks which are made from flexible plastic material are also called? (a) Hard disks High-density disks (b) (c) ✓ Diskettes (d) Templates Regarding a VDU, statement is more 198. correct? (a) It is an output device (b) It is an input device $(c)\checkmark$ It is a peripheral device It is hardware item (d) What is the name of the computer 199. terminal which gives paper printout! (a) Display screen (b) Soft copy terminal (c) ✓ Hard copy terminal (d) Plotter 200. Dot-matrix is a type of: (b)√ Printer (a) Tape (c) Disk (d) Bus The two kinds of main memory are: 201. (a) Primary and secondary Random and sequential (b) (c)√ RQM and RAM (d) All of above

202. A kind of serial dot-matrix printer the forms characters with magnetical charged ink sprayed dots is called:

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- (a) Laser printer
- (b)√. Ink-jet printer
- (c) Drum printer
- 203. Which printer is very commonly used for desktop publishing?
 - (a) ✓ Laser printer
 - (b) Inkjet printer
 - (c) Daisywheel printer
 - (d) Dot-matrix print

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201	An output device that uses words or		(b)	Computer – MCQs
204.			(0)v	men per second
	medium to produce audio response is:		(-)	Wieter per second
	(a) Magnetic tape	211	(d)	Centimeter per second
	(b) ✓ Voice response unit	~ 1	. Mag	metic disks are the most popular
	(c) Voice recognition unit		med	ium for
	(d) Voice band		(a)	Direct access
205	which of the following will happen		(b)	Sequential access
2007.	when, data is entered into a memory		. (c)√	(a) & (b)
	location?		(d)	None of above
	(a) It will add to the content of the	212	. Stora	age capacity of magnetic disk
	location	i o	depe	nds on:
	(b) It will change the address of the		(a)	Tracks per inch of surface
	memory location		(b)	Bits per inch of tracks
	$(c)\sqrt{1}$ It will erase the maximum		(c)	Disk pack in disk surface
	 (c)√ It will erase the previous content (d) It will not be fruitful if there is 			All of above
	i i i i i i i i i i i i i i i i i i i	213	. Read	ing data is performent i
	already some data at the		disk l	ing data is performed in magnetic
06	location			Read/write leads
00.	A storage area used to store data to a		(b)	Sectors
1	compensate for the difference in sneed		(c)	Track
	at which the different units can handle	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(d)	Lower surface
	data is	214	• /	ss time is:
1	(a) Memory (b) Buffer			Seek time + latency time
	(c) Accumulator	а ¹	(b)	Seek time
207	(d) Address	a ((c)	
207.	Which statement is valid about	10	(d)	Seek time - latency time Latency time
	sinche tabe?	215.		time is:
	(a) \checkmark It is a plastic ribbon			Time to position the head over
	(b) It is coated on both sides with	11. 1.	.(u)	proper track
1. 1	Iron oxide		(b)	Time to position the head over
	(c) It can be erased and reused	1. 1.1.1		proper sector
208	(d) All of above	1	· (c)	Time to position the head over
-00.	Ine data recording format in a			proper cylinder
	The data recording format in most of the modern magnetic tape is: (a) 7 -bit A COL		(d)	None of above
	(a) 7-bit ASCII	216		cy time is:
	-bit FRCDIC	210.		Time to spin the needed data
	A-bit Arizing	1.1	(a)•	under head
200	(d) 8-bit EBCDIC			Time to spin the needed data
···	Which of the full	. dan pa	(b)	under track
	(d) 8-bit EBCDIC Which of the following is associated with error detector? (a) Odd	it would	10000	Lime to spin data under sector
	(a) Odd porite to		(c)	All of above
	(a) Odd parity bit (b) Even market	1 (°	Elann	u dicks are available in.
1	(b) Even parity bit (c) \checkmark (a) & (b) (d) None	217.	1-1	Single side single density
210	(d) & (b) Tape Speed is measured in: (a) Feet per second			Single side double density
1	lape speed	F		(a) & (b)
1	(a) Feet neasured in:	1 175234		None of above
	Feet per second		(d)	
	1			

Computer – MCQs	
218 Floppy disks typically in diameter:	(a) OPCODE
(0) $3''' (0)$ 5.25	
(a) $8"$ (d) \checkmark All above	
210 Hard disk is coated in both side:	(d) None of these
 (a) ✓ Magnetic metallic oxide 	227. Machine language is:
(b) Optical metallic oxide	(a) Machine dependent
(c) Carbon layer	(b) Difficult to program
(d) All of the above	(c) Error prone
220. Binary circuit elements have:	$(d)\checkmark$ All of above
(a) One stable state	228. Mnemonic a memory trick is used.
(b) \checkmark Two stable state	which of the following language?
(c) Three stable state	(a) Machine language
(d) None of above	(b) ✓ Assembly language
221. Which statement is valid?	(c) High level language
(a) \checkmark 1KB = 1024 bytes	(d) None of above
(b) 1 MB=2048 bytes	229. The translator program used
(c) $1 \text{ MB} = 1000 \text{ kilobytes}$	assembly language is called:
(d) $1 \text{ KB} = 1000 \text{ bytes}$	(a) Compiler (b) Interpreter
222. Which statement is valid abou	
computer program?	(d) Translator
(a) It is understood by a computer	230. Easily re-locatable language is:
(b) It is understood by programmer	
(c) It is understood user	
$(d) \checkmark (a) \& (b)$	(b) ✓ Assembly language
223. Software in computer:	(c) High level language
(a) ✓ Enhances the capabilities of the	(d) Medium level language
hardware machine	in the following is the
(b) Increase the speed of central	level languages?
processing unit	(u) Machine language
(c) (a) & (b)	(b) Assembly language
(d) None of above	(c) \checkmark (a) & (b)
224. Which of the following is not	(d) None of above
computer language?	252. which of the following is pro-
(a) High level language	oriented language?
(b) ✓ Medium level language	(a) ✓ High level language
(c) Low level language	(b) Machine language
(0) All of the abar	
225. Which language is diment	(d) I 1 11
- without the t	233. A compiler is a translating progra
program?	which:
(a) ✓ Machine language	() - of a W
assembly lange	(a) Translates instruction of a level language into machine
	level language mo
(d) None of above	anguage soul
-istruction in com	(b) Translates entire language
consists of: computer languages	
	program

	Computer – MCQs
121 It is not involved in program's	(c) Optical disk
(c) It is not involved in program	(d) ✓ None of above
(c) execution	241. A name or number used to identify a
$(d)^{\checkmark}$ All of above (d) $^{\checkmark}$ All of the following is machine Which of the following is machine independence program?	storage location devices?
which of the program?	(a) A byte (b) A record
$(a)^{\sqrt{1}}$ High level language	$(c) \checkmark$ An address (d) All of above
(a) \checkmark High level language (b) Low level language	242. Which of the following' is a secondary
(b) Low level language (c) Assembly language	memory device?
	(a) Keyboard (b)√ Disk
(d) Machine tange of valid about	(c) ALU (d) All of above
235. Which statement	243. The difference between memory and
(a)√ It translates one instruction at a	storage is that memory is and
(a) time	storage is
out and is coved for future	(a) ✓ Temporary, permanent
(b) Object code is saved for future use	(b) Permanent, temporary
	(c) Slow, fast
(c) Repeated interpretation is not necessary	(d) All of above
(d) All of above	244. A floppy disk contains:
236. Which is the limitation of high level	(a) Circular tracks only
language?	(b) Sectors only
(a)√ Lower efficiency	(c) \checkmark Both circular tracks and sectors
(b) Machine dependence	(d) .AII of the above
(c) Machine level coding	245. The octal equivalent of 111010 is:
(d) None of above	(a) 81 (b)√ 72
^{237.} High level language is also called:	(c) 71 (d) 75
(a) Problem oriented language	246. The first electronic computer in the
(b) Business oriented language	world was:
(c) Mathematically oriented	(a) UNIVAC (b) EDVAC
anouage	(c) \checkmark ENIAC (d) All of above
	247. The most commonly used standard
i computer programmer.	data code to represent alphabetical,
(a) Does all the thinking for a	numerical and punctuation characters
	used in electronic data processing
(U) Can enter :	system is called:
- Upclale all types of	(a)√ ASCII (b) EBCDIC
(d) Computer equipments	(c) BCD (d) All of above
(d) Can draw only flowchart (a) Semia	248. Which was the computer conceived by
(a) is a:	Babbage?
(a) Semiconductor memory (b) Memory regist	(a) Analytical Engine
(c) V register	(b) Arithmetic Machine
(c) Magnetic memory 240. W1: None of about	(c) Donald Kunth
	(d) All of above
l some tollowing is not	249. Offline device is:
(a) Massionage device?	(a) A device which is not of
(a) Magnetic tape (b) Magnetic disk	to CPU
and a serie disk	

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Computer – MCQs	which was changes in 1924. What was
(b) A device which is connected to	that name?
CPU	(a) ✓ Tabulator Machine Co.
(c) A direct access storage device	(b) Computer Tabulating Recording
(d) An I/O device	Co.
250 Which of the following registers is	(c) The Tabulator Ltd.
loaded with the contents of the	(d) International Computer Ltd.
memory location pointed by the PC?	The state of the s
(a) Memory address registers	258. The first electronic general purpose digital computer built by Mauchly and
(b) Memory data registers	Eckert called ENIA did not work on
(c) ✓ Instruction register	the stored program principle. How
(d) Program counter	many numbers could it store in its
251. Which of the following registers is	
used to keep track of address of the	internal memory?
memory location where the next	(a) 100 (b) \checkmark 20 (c) 40 (d) 80
instruction is located?	
(a) Memory address register	259. Who is credited with the idea of using
(b) Memory data register	punch cards to control patterns of a
(c) Instruction register	weaving machine?
(d) ✓ Program counter	(a) Pascal (b) Hollerith
252. Microprocessors can be used to make:	(c) Babbage (d)√ Jacuard
(a) Computers	260. Who is credited with the idea of using
(b) Digital systems	punch cards to control patterns in a
(c) Calculators	waving machine?
(d)√ All of above	(a) Pascal (b) Hollerith
253. How many address lines are needed to	(c) Babbage (d)√ Jacuard
address each machine location in a	261. Most of the inexpensive personal
2048×4 memory chip?	computers do not have any disk of
(a) 10 (b)√ 11	diskette drive. What is the name of
(c) 8 (d) 12	such computes?
254. Which American computer company	(a) Home computers
is called Big Blue?	(b) Diskless computers
(a) Microsoft	(c) Dedicated computers
(b) Compa Corp	(d) General nurnose computers
(c)✓ IBM	262. In a punched card system, data is
(d) Tandy Svenson	processed by a
255. When did IBM introduce the 20286	(a) Keypunch machine, sorter and
based PC/AT?	
(a) 1982 (b)√ 1984	(b) Accounting machine, posting
(c) 1985 (d) 1989 256. When was the X	machine, and billing machine
was the A window system	(c) Sorter, posting machine, and billing machine,
	billing maching
$(a) \checkmark 1984$ (b) 1989 (c) 1988 (d) 1999	(d) Accounting machine. keypunch machine and sorter
	(u) Accounting machine, asy
J CUITINIET Cloud TD1	
earlier known by different name	263. A characteristic of card system is:
	(a) Slowness in processing data

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Computer - MCQs

(b) Using cards as records of transactions (c) Needing a larger DP staff

- (d) All of the above MAN IBM system/38 represents the computer class of:
 - (a) Small-scale computer
 - (b) Medium-scale computer
 - (c) Large-scale computer
 - (d) Super computer
- Which of the following are the two main components of the CPU?
 - (a) Control unit and registers
 - (b) Registers and main memory
 - (c)√ Control Unit and ALU
 - (d) ALU and bus
- 16. Which of the following is true?
 - Fields are composed of bytes (a) Institu:2.
 - (b) Records are composed of fields
 - (c) Fields are composed of characters
 - (d) ✓ All of above
- 267. Which of the following file organization is most efficient for a file with a high degree of file activity?
 - (a)√ Sequential (b) ISAM
- (c) VSAM (d) **B**-Tree Index 168. The two basic 1 pes of recoid access methods are:
 - (a) Sequential and random
 - (b) Sequential and indexed
 - (c) Direct and immediate
- (d) On-line and real time The advantage of COM are its ... and
 - (a)
 - Compast size; speed readability (b) Compact size, speed

 - Readability; speed
- 270, ^(d) Low cost; readability (a) A disadvantage of the laser printer is: It is casic: than an impact
 - (bj
 - It is , cry los 10)
 - The upat is of a lower quality (d) Note fairs

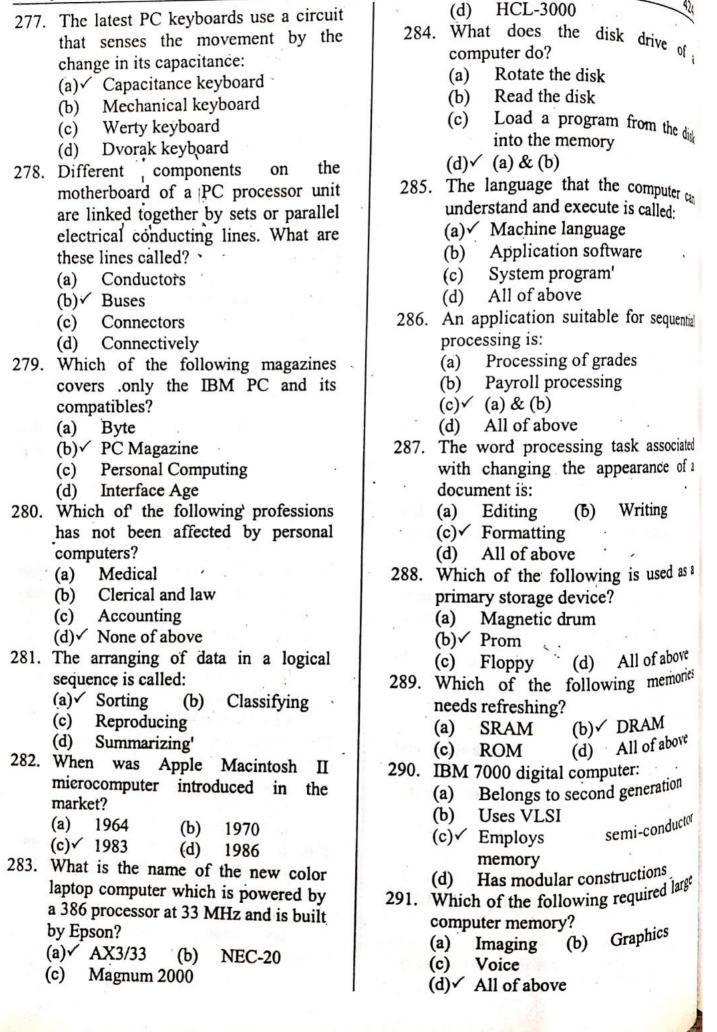
- 271. Which of the following is not true for a magnetic disk?
 - It is, expensive relative to (a) magnetic tape
 - (b)√ It provides only sequential access to stored data
 - User can easily update records (c) by writing over the old data
 - All of above (d)
- 272. The primary advantage of key-to tape data entry system is:
 - A large percentage of editing (a) can be performed at the time of. data entry
 - (b) Kev verification is casily performed
 - (c) \checkmark The tape is reusable
 - Keying errors can be detected as (d) they occur
- 273. The terminal device that functions as a cash register, computer terminal, and OCR reader is the:
 - Data collection terminal (a)
 - (b) OCR register terminal
 - Video Display terminal (c)
 - (d) ✓ POS terminal
- 274. Which of the following does not affect the resolution of a video. display image?
 - (a) Bandwidth
 - (b) Raster scan rage
 - (c) Vertical and horizontal lines of resolution

(d)√ Screen size

- While inserting a diskette into 275. diskette drive of a PC, the disker label side should face:
 - North (b) East (a)
 - (d)√ Up (c) South

276. In which year was UK's premier computing event called "The which computer" started?

	(1)/	and the second se	(b)	1985
í.	(a)*_	1980		1987
	(c)	1986	(d)	170.



425 associated with the term comparison of processing speeds of 292. A 298. different computer system is: **(b)** MPG EFTS (a)(c)√ MIPS CFPS (d) 293. The proper definition of a modern (a) (b) digital computer is: electronic automated An (a) (d) machine that can solve problems involving words and (a) numbers (b) A more sophistic and modified (b) (c) electronic pocket calculator Any machine that can perform (c) mathematical operations (d) A machine that works on binary (a) code 294. A modern electronic computer is a (c) machine that is meant for: (d) Doing quick mathematical (a) 301. calculations (a) (b)√ Input, storage, manipulation and (c) outputting of data Electronic data processing (c) (d) Performing (a) repetitive tasks. accurately 295. An integrated circuit is: (c) (a) (d) A complicated circuit (b) An integrating device (c) Much costlier than a single transistor (d)√ Fabricated on a tiny silicon chip (b) 296. In the third generation of computers: (c) (d) (a) Distributed data processing first became popular (b) An operating system was first developed (a) (c) (b) High-level procedural languages were firs used

- (d) ✓ On-line, real time systems first

NT_

- ²⁹⁷. A characteristic of card systems is:
 - Slowness in processing data (b) Using cards as records of transactions (c)
- (d) ✓ All of the above The first firm to mass-market a microcomputer as a personal computer was: IBM Sperry Univac (c) ✓ Data General corporation Radio Shack 299. Which of the following is true? Fields are composed of bytes Records are composed of fields Fields are composed of characters $(d) \checkmark$ All of above 300. The advantage of COM are its ... and Compact size; speed readability (b)√ Compact size, speed Readability; speed Low cost; readability To locate a data item for storage is: Field (b) Feed (d)√ Fetch Database 302. Programs designed to perform specific tasks is known as: System software (b) ✓ Application software Utility programs Operating system 303. Perforated paper used as input of output media is known as: (a)√ Papertapes Magnetic tape Punched papers Card punch 304. Time during which a job is processed by the computer is: Delay times Real time (c)√ Execution time Down time 305. A computer which CPU speed around

100 million instruction per second and with the word length of around 64 bits

- is known as: (a) ✓ Super computer
- Mini computer (h)
 - Scanned with CamScanner

Com	puter – MCQs	314.	The central processing unit (CPU)
	(c) Micro computer		consists of:
	(d) Macro computer		(a) Input, output and processing
306.	that permits the		(b) Control unit. primary storage
300.	An approach that recomputer to work on several programs		and secondary storage
	instead of one is:		(c)√ Control unit, arithmetic-logic
	a l'adaparile	10	unit and primary storage
			a 1 unit processing
	(b) Multiprogramming (c) \checkmark Over lapped processing		
			primary storage
	(d) Outline processor	315	EBCDIC can code up to how many
307.	A directly accessible appointment		different characters?
	calendar is feature of a resident		(a)√ 256 (b) 16
	package:		(a) 32 (d) 64
	(a) CPU (b)√ Memory	[·] 316.	Which is considered a direct entry
	(c) Buffer (d) ALU	510.	input device?
308.	The term gigabyte refers to:		- · · · · · · · · · · · · · · · · · · ·
	(a) 1024 bytes		1 digitigor
	(b) 1024 kilobytes		
•	(c) ✓ 1024 megabytes		(c) Light pen
	(d) 1024 gigabyte	8. D. C.	(d) ✓ All of the above
200	Which of the following processors use	317.	Which is used for manufacturing
509.	RISC technology?		chips?
	(1) (Dever DC	2	(a) Bus
			(b) Control unit
		ł	(c)√ Semiconductors
310.	A/n Device is any device that	j êrsel	(d) (a) and (b) only
	provides information, which is sent to	318.	The computer. code for th
	the CPU:	515.	interchange of information betwee
	(a)√ Input (b) Output		interchange of information set
	(c) CPU (d) Merpory	- 25	terminals is.
311.	Current SIMMs have either or	Lister te	(a) ✓ ASCII (b) BCD
	connectors (pins)		(c) EBCDIC (d) All of above
	(a) 9 or 32 (b) 30 or 70	319.	A byte consists of:
	(c) 28 or 72 (d) \checkmark 30 or 72	dob	(a) One bit (b) Four bits
312.	The storage subsystem in a	1 12023	(c) \checkmark Eight bits (d) Sixteen bits
	microcomputer consists mainly of	320,	
	or media with varying capacities:	520,	A hybrid computer:
		tanit.	(a) Resembles digital computer
	(a) Memory or video	a sector	(b) Resembles analog computer
	(b) ✓ Magnetic or optical		(b) Resembles analog compare (c) ✓ Resembles both a digital at
	(c) Optical or memory	1 and	analog computer
	(d) Video or magnetic		(1) Mana Cila should
13.	Which of the following is not an input	321.	
	device?	521.	the shicon chips used
	(a) OCR		processing are called:
	(b) Optical scanners		(a) RAM chips
	1		(b) ROM chips
	(d) (CON 10	a 163 - 1	(c) Micro processors
1	(computer Output fo	4. 1. 1.	
No.	Microfilm)		(d)✓ PROM chips

Computer - MCQs

- 121 metal disks, which 322. The are permanently housed in sealed and contamination free containers 816 called:
 - (a) Hard disks
 - (b) Floppy disk
 - (c)√ Winchester disk
 - (d) Flexible disk
- 323. A computer consists of:
 - (a) A central processing unit
 - (b) A memory
 - (c) Input and output unit
 - (d) ✓ All of the above
- 324. An application program that helps the user to change any number and immediately see the result of that change is:
 - (a) Desktop publishing program
 - (b) Database
 - (c)√ Spreadsheet
 - (d) All of above
- 325. The instructions for starting the computer are house on:
 - (a) Random access memory
 - (b) CD Rom
 - (c)√ Read only memory chip
 - (d) All of above
- 326. The ALU of a computer normally contains a number of high speed storage element called:
 - (a) Semiconductor memory
 - (b)√ Registers
 - (c) Hard disks
- (d) Magnetic disk
- 327. A factor which would influence a business person to adopt a computer is its:
 - (a) Accuracy
 - (b) Reliability
- ³²⁸. The magnetic storage chip used to (c) Speed provide non-volatile direct access storage of data and that have no moving parts are known as:
 - (a) Magnetic core memory (b) Mapnetic

- Magnetic disk memory (c) (d) ✓ Magnetic bubble memory 329. CAD stands for (a) ✓ Computer aided design (b) Computer algorithm for design (c) Computer application in design (d) All of the above 330. RATS stand for: (a) ✓ Regression Analysis Time Series (b) Regression Analysis Time Sharing Real Analysis Series (c) (d) All of above 331. In which year was chip used inside the computer for the first time? (a) 1964 (b)√ 1975 (c) 1999 (d) 1944 332. What was the name of the first commercially available microprocessor chip? (a) Intel 308 (b) Inter 33 (c)√ Inte14004 (d) Motorola 639 333. When were the first minicomputer built? (a)√ 1965 (b)1967 (c) 1971 (d) 1966 334. The first digital computer built with IC chips was known as: IBM 7090 (a) (b) Apple-1 (c)√ IBM System/360 (d) VAX-10 335. In which language is source program written? Symbolic (a) English (b) (c)√ High level (d) Temporary 336. Which of the following terms is the most closely related to main memory?
 - Non volatile (a)
 - (b) Permanent
 - Control unit (c)
 - (d)√ Temporary
- 337. Which of the following is used for manufacturing chips?
 - Control bus (2)

- Control unit (b)
- Parity unit (c)
- (d)√ Semiconductor
- 338. Which of the following is required when more than one person uses a central computer at the same time? (a)√ Terminal (b) Light pen
 - Digitizer Mouse (d) · (c)
- 339. Which of the following is used only for data entry and storage and never for processing?
 - Mouse (a)
 - $(b) \checkmark$ Dumb terminal
 - (c) Micro computer
 - (d) Dedicated data entry system
- 340. To produce high quality graphics (hardcopy) In color, you would want to use a/n:
 - **RGB** monitor (a)
 - (b)√ Plotter
 - (c) Ink-jet printer
 - (d) Laser printer
- 341. Which of the following printers are you sure will not to use if your objective is to print on multi carbon' forms?
 - (a) Daisy wheel
 - (b) Dot matrix
 - (c)√ Laser (d) Thimble
- 342. Which of the following printing devices an output composed of a series of data?
 - Wire matrix printer (a)
 - (b) Band printer
 - Wang image printer (c)
 - (a) and (c)(d)
- 343. The personal computer industry f was started by:
 - (a)√ IBM (b) Apple (c)
 - Compa (d) HCL
- 344. In the IBM PC-AT, what do the words AT stand for: (a)
 - Additional Terminals
 - (b) ✓ Advance technology (c)
 - Applied technology (d)
 - Advanced terminology

- 345. Magnetic tape can serve as:
 - Secondary storage media (a)

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- (b) Output media
- (c) Input media
- (d) \checkmark All of the above
- 346. If in a computer, 16 bits are used to specify address in a HAM, the number of addresses will be:
 - (b)√ 65,536 216 (a)
 - (c) (d) Any above 64K
- The two major types of computer 347. chips are:
 - External memory chip (a)
 - (b) Primary memory chip
 - Microprocessor chip (c)
 - $(d) \checkmark (b) and (c)$
- 348. As compared to the secondary memory, the primary memory of a computer is:
 - (a) Large (b) Cheap
 - (d) (c)√ Fast Slow
- 349. Which of the following is a way to access secondary memory?
 - (a) ✓ Random access memory
 - (b) Action method
 - (c) Transfer method
 - (d) Density method
- 350. Which wa the most popular first generation computer?
 - (a)√ IBM 1650
 - (b) **IBM 360**
 - (c) IBM 1130
 - (d) **IBM2700**
- 351. What is the responsibility of the logical unit in the CPU of a computer?
 - (a) To produce result
 - (b) ✓ To compare numbers To control flow of information
 - (c)
- To do math's works (d)
- 352. The secondary storage devices can only store data but they cannot perform:
 - Arithmetic Operation (a)
 - (b) Logic operation
 - (c) Fetch operations
 - (d) ✓ Either of the above

- 353. Which of the printers used in conjunction with computers uses dry ink power?
 - Daisy wheel printer (2)
 - (b) Line printer
 - (c) Laser printer
 - (d) Thermal printer
- 354. Which of the following produces the best quality graphics reproduction?
 - (a) Laser printer
 - (b) Ink jet printer
 - (c)√ Plotter
 - (d) Dot matrix printer
- 355. Which of the following memories allows simultaneous read and write operations?
 - (a) ROM (b)√ RAM
- (c) EPROM (d) None of these 356. Which of the following memories has the shortest access times?
 - (a)√ Cache memory
 - (b) Magnetic bubble memory
 - (c) Magnetic core memory
 - (d) RAM
- 357. A 32 bit microprocessor has the word length equal to:
 - (a) 2 byte (b) 32 byte
 - (c)√ 4 byte (d) 8 byte
- 358. An error in computer data is called:
 - (a) Chip (b)√ Bug
 - (c) CPU
- (d) Storage device
- 359. A set of information that defines the status of resources allocated to a process is:
 - (a) Process control
 - (b) ALU
 - (c) Register Unit
- (d) ✓ Process description
- 360. Any method for controlling access to or use of memory is known:

 - (a) Memory map
 - (b) Memory protection
 - Memory management (d) Memory instruction

- Computer MCQs 361. A type of core store that has a lower
 - access time than the devices used for working store in the same processor is (a)
 - Core memory
 - **(b)** Buffer
 - (c) Fast core
 - (d) ✓ Address register
- 362. Which of the following is an acronym for electronic delay storage automatic calculator?
 - (a) UNIVAC (b)√ EDSAC
 - (c) EDVAC (d) Abacus
- 363. Which of the following is form of semi conductor memory in which it is possible to change the contents of selected memory locations by applying suitable electrical signals?
 - (a) CAM (b) ROM
 - (c)√ EPROM (d) Abacus
- 364. A disk storage medium in the form of an assembly containing a single rigid magnetic disk permanently is:
 - (a) Fixed disk
 - (b) ✓ Disk cartridge
 - (c) Card punch
 - Card reader (d)
- 365. A memory that is capable of determining whether a given datum is contained in one of its address is:
 - ROM PROM (a) (b)
 - (c)√ CAM (d) RAM
- 366. A method of implementing a memory management system is:
 - (a) ✓ Buddy system
 - Bridge-ware (b)
 - (c) Broadband coaxial system
 - (d) All of the above
- 367. A plastic card similar to a credit card
- but having some memory and a microprocessor embedded within it is: (a) ✓ Punched paper tape
 - Chip card
 - (b) Card punch
 - (c) Magnetic tape (d)

Computer – MCQs	(a) Acoustic couples
Computer – MCQs 368. A device that operates under the tral of another device is called:	(b) ✓ Access arm
368. A device that operates called: control of another device is called:	(c) Cluster
control of another $(b) \checkmark$ Slave (a) Stem (b) \checkmark Slave	(d) All of the above
	376. Condensing output data to exhibit
	specific information is.
369. Actual data processing operation logic performed in the arithmetic logic Storage	(a) Calculating
tion but not in the	(b) Recording
	(c) Merging
Demary (D) House	(d)√ Summarizing
Duffer (1) Secondary	277 Which chips using special external
and of spooler Diograms und	equipment can reprogram:
1 and allows personal compared	(a) ROM (b)√ PROM
to to do the processing work at	(a) SAM (d) RAM
the same time a printing operation is	device where the access
in progress.	378. A storage device where the atts
in progress: (a) Registered mails	the data is:
	(a) Random access (b)√ Serial access
(c) CPU (d) Buffer 371. Which most popular input device is	229000
371. Which most popular input processing used today for interactive processing	The stran access
and for the one line entry of data for	(d) Transaction access
and for the one fine endy	379. Which number system is commonly
batch processing?	used as a shortcut notation for groups
(a) ✓ Mouse(b) Magnetic disk	of four binary digits?
1 1' 1	(a) Dinary (a)
	(c) Octal
(d) Card punch 372. User programmable terminals that	(d)√ Hexadecimal
372. User programmable terminable terminable combine VDT hardware with built-in	(d) ✓ Hexadecimal 380. Interface electronic circuit is used № devices to
	380. Interface electronic circuit interconnect I/O devices to
microprocessor is:	computer's (PL OF
(a) Rips (c)	(a) ALLI (b) Menio
(c) Mainframe	(c) Buffer (d) Register
(d)√ Intelligent terminals	381. One millisecond is:
373. The number of characters that can be	(a) 1 second
stored in given physical space is:	
(a) Word length	(b) 10th of a seconds
(b) Byte	$(c) \checkmark 1000$ th of a seconds
(c) ✓ Data density	(d) 10000th of a seconds 382. An online backing storage system canable of storing larger quantities of
(d) Field	382. An online backing storage spectrum capable of storing larger quantities of data is:
374. The storage capacity of a disk system	capable of storing larger quant
depends on the bits per inch of track	data is: (a) CPU (b) Memory
and the tracks per inch of:	(a) CPU (b) Memory
(a) Cylinder (b) Hum	(a) / Mass storage
(c) Cluster $(d) \checkmark$ Surface	(d) Canandamy storage devil
375. The disk drive component used to	(d) Secondary storage 383. One of a class of storage device devices that can access
position read/write heads over a	devices that can access st
specific track known as:	locations in any order is:
	iocations in any order a

431	
(a) DTE (b) \checkmark DASD	392
(c) DDE (d) DDE	
384. Which is an item of storage medium	
in the form of chedian plate?	
(a) $\sqrt{\text{Disk}}$ (b) CPU	
(c) Printer (d) ALU	
385. Properly arranged data is called:	
(a) Field (b) Words	393
(c)√ Information	
(d) File	
386. Another word for a daisy wheel	
printer:	
(a) Petal printer	
(b) ✓ Golf ball printer	
(c) Laser printer	394
(d) Line printer	
387. A term used to describe	
interconnected computer	395
configuration is:	100
(a) ✓ Multiprogramming	
(b) Modulation	
(c) Multiprocessing	
(d) Micro program sequence	
388. An input /output device at which data	396
enters or leaves a computer system is:	1 .
(a) Keyboard	1
(b)√ Terminal	
(c) Printer (d) Plotter	397
389. A physical connection between the	
and other	
parts of the microcomputer is known as:	
-5.	
(a) Path (b) \checkmark Address bus	-
^(c) Route (d) All of above	398
^{390.} A group of magnetic tapes, videos or ^{terminals} usually under the control of	
terminals usually under the control of	
one master is:	
(a) \checkmark Cluster (b) Surface	
³⁹¹ (c) Track (d) None of these Number crunchier is the informal (a) Minimum of the informal	399
number crunchier is the informal	
(a) for:	- *
	· · · ·
(b) Super computer (c) Microcom	
(c) Microcomputer (d) Mainframe	1. 1964
Mainframe commuter	400
(d) Mainframe computer	400
and the second	

	Computer MCO
2.	Computer - MCQs
	A technique used by codes to convert an analog signal into
	an analog signal into a digital bit stream is known as:
	(a) \checkmark Pulse code modulation
	(b) Pulse stretcher
	(c) Query processing
	(Q) (Difelle management)
93.	The personnel who deals with the
	computer and its management put
	together are called:
	(a) Software
	(b)√ Human ware
	(c) Firmware
	(d) Hardware
94.	The brain of any computer system is:
\$	(a) ALU (b) Memory
	(c)√ CPU (d) Control unit
95.	Each model of a computer has
	unque.
	(a) Assembly of a computer
	(b) ✓ Machine language
	(c) High level language
6	(d) All of the above
0.	Computer professionals worki a
4	computer center are:
	(a) Software (b) Firmware
7	(c) Hardware (d)√ Human-ware Which of the items below are
	considered removable storage media?
	(a) Removable hard disk cartridges
	(b) (Magneto-optical) disk
	(c) Flexible disks cartridges
	(d) \checkmark All of the above
8	Which term is used to describe RAM?
	(a) Dynamic RAM (DRAM)
	(b) Static RAM (SRAM)
	(c) Video RAM (VRAM)
	$(d) \checkmark$ All of the above
0	Which of the following are (18)
19.	considered to' be video component?
	(a) Resolution

- Color depth (b)
- Refresh rate (c)
- (d)√ All above
- 0. On a PC, how much memory is available to application software?
 (a) 1024 KB (b) 760 KB
 - Scanned with CamScanner

Computer – MCQs	(c) Digitizer (d) (T 4)
(c)√ 640 KB (d) 560 KB	(c) Digitizer (d)√ Terminal
401. Which of the following items are	410. A hard copy would be prepared a
examples of storage devices?	(a) Line printer
	(b) Dot matrix Printer
	(c) Typewriter terminal
(b) CD-ROMs	(d) \checkmark All of the above
(c) Tape devices	411 A typical personal come
(d) \checkmark All of the above	411. A typical personal computer used f
402. The width of a processor's data path is	business purposes would have
measured in bits. Which of the	KAIM.
following are common data paths?	(a) 4 KB (b) 16 K
(a) \checkmark 8 bits (b) 12 bits	(c) 64 K (d)√ 256 K
(c) 16 bits (d) 32 bits	412. A high quality CAD system uses t
403. Which is the type of memory for	following for printing drawing ar
information that does not change on	graphs:
your computer?	(a) Dot matrix printer
(a) RAM (b)√ ROM	(b) ✓ Digital plotter
(c) ERAM (d) RW/RAM	
	(c) Line printer
404. What type of memory is not directly	(d) All of the above
addressable by the CPU and requires special software called EMS	413. Symbolic logic was discovered by:
	(a) ✓ George Boole
(expanded memory specification)?	(b) Herman Holierith
(a) Extended (b)√ Expanded	(c) Van Neumann
(c) Base (d) Conventional 405. Before a disk can be used to store	(d) Basic Pascal
a dish suit se used to store	414. What was the nick name of the
data. It must be	computer used by the Americans
(a) ✓ Formatted	1952 for their Hydrogen-bom
(b) Reformatted	project?
(c) Addressed	
(d) None of these	
406. What type of device is computer	(c) MANIAC (d) UNIVAC
keyboard?	415. The word length of a computer is
(a) Memory (b) Output	measured in:
(c) Storage $(d)\sqrt{Input}$	(a) Bytes (b) Millimeters
407. The original ASCII code used bits of	(c) Meters (d) Bits
each byte, reserving that last bit for	416. Multi user systems provided cost
error checking:	savings for small business became
(a) 5 (b) 6	they use a single processing unit N
	link several:
408. Which company is dia to	
408. Which company is the biggest player	(a) Personal computers
(a) Matani	(b) Workstations
(c) Intel (b) IBM	(c) ✓ Dumb terminals
409. What is received (d) AMD	(d) Mainframes
409. What is required when more than one person uses a central same	417. What are the three decisions making
person uses a central computer at the same time?	operations performed by the ALC
(a) List	computer?
(a) Light pen (b) Mouse	(a) Grater than
	(b) Less than

433 (c) Equal to	C
· / All of the above	(b) ✓ Operate the i
antich part of the computer is used for	(b) ✓ Operate the device which input and output data for
418. which part end comparing?	and output data from the
Calculating	
(a) Disk unit (b) Control unit	(c) Normally require a college degree in computer aris
$(c)^{\checkmark}$ ALU (d) Modem	(d) All of the above
(c) ALC (d) Modelin	20. A computer program
419. Can you tell what passes into and out from the computer via its ports?	(a) ✓ Dies all the thinking for a compute
	compute
(.)	(b) Can enter input data quickly(c) Can operate all types of
120. Which type of computers uses the 8-	computer equipment
bit code called EBCDIC?	(d) Can draw only flowebert
(a) Minicomputers	(d) Can draw only flowchart 427. CD-ROM:
(b) Microcomputers	
(c) ✓ Mainframe computers	a serificonductor memory
(d) Super computer	i contrar y register
421. Where as a computer mouse moves	 (c) Magnetic memory (d) ✓ None of the above
over the table surface, the trackball is:	428. Which of the fall
(a) ✓ Stationary	428. Which of the following is not a primary storage device?
(b) Difficult to move	
(c) Dragged	· • F-
(d) Moved in small stems	
422. Which one of the following input	 (c) Optical disk (d) ✓ None of above
device is user-programmable?	429 A name or dumbar in the
(a) Dumb terminal	429. A name or number used to identify a
(b) Smart terminal	storage location is called:
(c) VDT	(a) A byte (b) A record
(d) V Intelligent to 1	(c) \checkmark An address
(d)√ Intelligent terminal	(d) All of above
⁴²³ . Which computer memory is used for storing programs and data	430. Which of the following is a Secondary
	memory device?
⁵⁴⁴ S PLOCESSED by the CDI 19	(a) Keyboard (b)√ Disk
1/ Wass memory	(c) ALU (d) All of above
Internal memory	431. The difference between memory and
	storage is that memory is and
424 (d) PROM	storage is
Compliter in at	(a) ✓ Temporary, permanent
use of English words instead of.	(b) Perimanent, temporary
binary machine code is called:	(c) Slow. fast
(a) M. Coue is called:	(d) All of above
(0)V Sum 1	422 A flowny disk contains:
(c) Grad	
(c) Gray codes (d) Once d	
(d) Opcode (a) Opcode (a) Writes computer programs for	 (b) Sectors only (c) ✓ Both circular tracks and sectors
(a)	(c) ✓ Boin circular uter
Writes computer	(d) All of the above
^(a) Writes computer programs for ^{specific} problems	(d) All of the above 433. The octal equivalence of 111010 is:
Provietilis	
	al 4 All Tests, visit our site, and download in pdf n/ & Like our FB pages to stay connected

(1) (7)	(a) 1982 (b) $\sqrt{100}$
(a) 81 (b) $\sqrt{72}$	(a) 1085 (b) 1984
(c) 71 (d) None of these	142 The first elect
434. The first electronic computer in the	digital computer built i pu
world was:	Accrete called ENIAC
(a) UNIVAC (b) EDVAC	on the stored program as
(c) FNIAC	many numbers could it store i
(d) All of above	internal memory?
435. Which was the computer conceived by	(a) 100 (b)√ 20
Babbage'?	(c) 40 (d) 80
(a) Analytical engine	443. Process of finding/correcting pro
(d) Arithmetic machine	errors is:
(c) Donald Knuth	(a) Bugs (b)√ Debuggin
(d) All of above	(c) Hacking (d) Cracking
436. Offline device is:	
(a) \checkmark A device which is not connected	
to CPU	(a) Programs used to print of messages
(b) A device which is connected to	
CPU	(b) Indicates system problems improper program instructio
(c) , A direct access storage device	(c)√ (a) & (b)
(d) An I/O device	(d) None of these
137 Which of the following registers is	445. The term DBMS is referred to:
used to keep track of address of the	(a) Data Base Management syste
memory location where the next	- Guine used for
instruction is located?	management maintenance
(a) Memory address register	retrieval of the data stored
(b) Memory data register	data base
(c) Instruction register	(c)√ (a) & (b)
(d) Program counter	(1) None of these
438. Microprocessors can be used to make:	1 to high data is transle
(a) Computer	446. The speed at which data is a from the main memory to ano
(b) Digital systems	from the main memory to medium on which data are recorde
(c) Calculators	referred as:
(d) (All of the above	(a) ✓ Data transfer rate
120 How many address lines are needed to	(b) Byte (c) Buds (d) None of th
address each memory location in a	ICI Duus
2048 × 4 memory chip?	(c) Buds (d) None which 447. The time period during which time is multiunctioning or
(a) 10 (b) \checkmark 11	447. The time period during when computer is malfunctioning or operating correctly due to mach failure is referred as:
(a) 10 (d) 12 (d) 12	I ODELATINE COMPANY
40. Which American Computer Company	failure is referred as: () (Downtime (b) Uptime
is . iled 'Big Blue''?	(a) ✓ Downtime (b) None of th
(a) Microsoft	(c) Runtime (d) None
(b) Compa Corp	AAR ERCDIC is:
(c) ✓ IBM	(a) 6-bit coding system
(d) Tandy Sevenson	(b) 7-bit coding system
441. When did IBM introduced the 80286	(c) ✓ 8-bitcoding system
141 When did IBM infroduced the 00200	(d) 0 bit coding system

13	Computer – MCQs
435 49. A data communication facility on 49. A data can be transmitted in two	(c) Hierarchical and All Cos
49. A data confinance transmitted in two	and an encort
t actions is referred as.	(d) Data control network
Duplex (0) Simplex	457. Communications device, combines
Tradex (0) None of these 1	Control 1 Control 1
tiertronic Mail Message System	on the is.
(EMMS) is similar or best suits to:	(a) Concentrator
(a) Postal service	(b) Modifier
(b) Telephone service	(c) ✓ Multiplexer
(c) Telegraph service	(d) Full-duplex line
(d) None of these	4.3.6 Lists community in the second
	telegraph lines uses:
451. Digital Computer is a computer:	(a) Simplex lines
(a)√ That works with discrete	(b) Wide band channels
quantities	(c) Norrowhere $d = 1$
(b) That works with analog	(c) ✓ Narrowband channels
quantities	(d) Dialed service
(c) (a) & (b)	459. A semiconductor memory which
(d) None of these	allows the eraser of the information
452. The subdivision of fields:	stared in it so that new information
	can be stared in it is referred as
(a) Always done to give the	management:
programmer greater flexibility	(a) EPROM (b) ROM
(b) Dependent. on programming	(c) RAM (d) None
language used	460. Extended ASCII uses:
(c) Never accomplished on fields	(a) \checkmark 8 bits for coding
containing numeric data	(b) 9 bits for- coding
(0) All Above	(c) 10 bits for coding
453. The primary memory of a person	(d) 11 bits for coding
	461. A device used for transmission of
(a) ROM only (b) RAM only	
(c) Both ROM and RAM	images scanned at a transmitting point
(d) Mama	and duplicated at a receiving point is:
454 Microsoft and RAM	(a) ✓ Facsimile (FAX)
454. Microsoft Excel is:	(b) Telephone
Fillancial plonning markers	(c) Photocopier
	(d) None of these
(c) Graphics package	462. A data transmission medium made of
(d) Database package All the keys on the UDA (D) (d)	tiny threads of glass or plastic that can
All the keys	transmit huge amount of information.
455 All the keys on the IBM PC keyboard repeat" as long as one holds them	transmit nuge amount of mitorimation
repeat" as long as one holds them	at the speed of light is:
down. These keys are known as: (a) Typematic keys	(a)√ Fiber optic cable
(a) Typematic keys (b) Functional t	(b) Copper cable
Functional loss	(c) Twisted wire cable
(b) Functional keys (c) Automatic keys (d) Alphabasis I	-fthace
456 (d) Alphal	(d) None of these
Distribute in Revs	and the second se
Confirm data processing	
passes where all activities	
come through a controlly broad	a statistical in the second second second second
passes through a centrally located (a) passes through a centrally located	
(L) Ring not	the second
(a) ^{puller} is: (b) ^{Ring} network Spider network	
-Pider network	
	그는 것 같은 것 같은 것을 가장하는 것을 가지 않는 것 같이 많이 없다.

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MS Word

(Microsoft Word)

Introduction:

Word Processing: The process of creating and editing text documents is known as word processing. It also includes formatting and printing documents in different ways word processing is used by government organizations, business departments and individuals for creating different types of documents. More than 90 percent people using personal computers also use word processing. Word processing is used for following purposes:

- Preparing notes (a)
- Writing books (b)
- Writing letters (c)
- Designing resumes (d)
- Preparing newspapers; (e) magazines etc.

Processor: The word Word processor is a type of application software. It provides useful tools for creating all kinds of text documents. It can also be used to add images, sounds, charts and graphics in documents. Word processors can also be used to create documents for publishing on the World Wide Web.

Word: 'Word is the most popular word processing software. It is used to create different types of documents such as letters. reports, messages and notes etc.

Features of Microsoft Word

Some important features of Microsoft Word are as follows:

1. User Interface The foundation of Word user interface is **Ribbon**. It is a blue banner that stretches across the top of the screen. It shows the most commonly used command and displays different options in a visual format. The ribbon makes it easier and quicker to access commands. The Quick Access Toolbar provides easy access to frequently used commands. The Microsoft

Office button replaces the File menu gi

2. Mini Toolbar: The Mini Toolbar time saving feature of MS Word It small tool bar that contains frequently commands. formatting It automatically when the user selects or the clicks the text. It is dim and appears in few seconds. It becomes more visible the user moves the mouse over it

3. New File Formats: Word uses a new format that significantly decreases document file size. The new file formation makes the files more secure. It also help recover the damaged or corrupt files easth

Compatibility Checker: 4. Compatibility Checker identifies feature that are not supported by earlier versions: Word. This command is very useful whe the user is sharing documents with the users who may not be opening the docume using Word.

5. Formatting: MS Word has a wide m of formatting facilities. A user can change the color, background color, size and st of text. The formatting can be applied characters, paragraphs and whole pages: 6. Live Preview: Live, Preview feature used to temporarily, preview the effect of action before applying it. It can be used see- how the text will appear when a cert formatting is applied such as font style, sur and colors etc.

7. Quick Styles and Themes: Styles Themes feature is used to produce professional documents with different Galleries # collections of thumbnail graphics. provide quick visual access to available formats. Word also provides color schells font schemes, and pre-defined effects create a personal theme.

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8. Building Blocks: Building blocks are the 8. punders and graphics that can be used repeatedly in the document. Word has several built-in building blocks such as cover pages, headers and footers, page numbers and watermarks.

9. Equation Builder: Word includes new tools for building equations. It can be used to create an equation by inserting symbols. The user can also select preformatted equations.

10. Compare Two Versions of Document: Word provides the facility to find the changes made to a document. A new trinane review panel is used to see both versions of a document with deleted inserted and moved text.

11. Convert Word Documents to PDF or XPS: Word provides the option to save a document as Portable Document Format (PDF) or an XML Paper Specification (XPS) file. It allows the user to share the documents with the people who do not have Word

12. SmartArt: Smart Art is a new feature of MS Word that is used to create professional diagrams quickly and easily.

13. Shapes & Graphics: MS Word provides. a variety of shapes such as arrows, callouts, squares, stars, flowchart and symbols to insert in a' document. The user can also insert images and graphs in the document. It also provides the facility to create images.

14. Word Art: WordArt is a feature of MS that is used to create stylish text in a variety of shapes. It provides the facility of stretching, coloring and shading text. It converts text into graphics.

5. Spelling and Grammar Check: Spelling and Grammar features in Word is bed to correct any mistakes made when ^{yping the} document. The spelling errors are ^{ighlighted} by red underline and grammar mors by green underline. 6. AutoCorrect: AutoCorrect is used to

^{orrect} the typing errors automatically. It

can save time during editing. automatically 11 detects and corrects misspelled words, grammatical errors and incorrect capitalization as they are typed.

17. Thesaurus & Synonyms: MS Word has an excellent feature for finding words with similar meanings. The user can select and word from the list of suggested words Thesaurus is used to find different words. It displays a list of synonyms.

18. Template: Template is a pre formatted document that serves as a model to create new documents. The user can create professional letters, memos, reports and other documents easily.

19. Tables: Table is a collection of rows and columns. It can be used to display data easily. These tables can also be formatted. The user can easily add rows and columns in a table without disturbing the data.

20. Column: MS Word provides the facility to divide the page in columns. A document can be divided into multiple of columns as required.

21. Printing: MS Word also provides the printing facility. The user can print documents to get a hard copy. The user can print the Whole document or any required range.

MCOs

- Word is the most popular product of: 1. Sun system (a)
 - (b)√ Microsoft

Hewlett ANSI (d) (c)

widely used word 2. The most processing software is:

Word perfect (a)

(b)√ MS-Word

Word Star (d) Notepad (c)

Word is a type of software:

Spreadsheet (a)

Database (b)

(c)√ Word processing

Accounting (d)

437

3.

138	Computer - MCQ
4. Word processing programs are used to	(b) Format Freview
create:	(c) ✓ Live Preview
(a) Reports	(d) Quick Preview
(b) Memos and letters	12. Change to a different tab by clicking the tab:
(c) Envelopes and labels	the tab:
(d) All of the above	(a) Number (b)√ Name
5. Word processing includes the process	(c) Color
of:	(d) All of the above
145047874777	12 The Home teb cont
0	13. The Home tab contains all of the
8	Tonowing groups EACEPT
(c) Formatting document	group:
(d) All of the above	(a) Editing (b) Clipboard
6 button is located on the top	(c) Font (d)√ File
left corner of Word screen:	14. Where is the status bar located m
(a) ✓ Microsoft Office button	Word?
(b) Ribbon	(a) On the left
(c) Microsoft Home	(b) On the right
(d) Save	(c) Below the Ribbon
7. The is the panel at the top of	(d) At the bottom
the document:	
(a) ✓ Ribbons (b) Office button	and the start in the contains all u
· (c) Tab	the following EXCEPT the:
(d) Quick Access Toolbar	(a) Total number of words
3: Tabs that organize commands into	(b) ✓ Filename
TOUDS are located on the	(c) Total number of pages
Word:	(d) Current page of the document
(-) (D'1)	16. Where is the Zoom slider located?
(a) Ribbon (b) Office button (c) Status bar	(a) On the right side of the Ribbon
(d) Quick Access Toolbar	(b) Below the title bar
2. The most common same	(c) ✓ On the right edge of the status
7. The most common commands such as	bar
Open, Print, and Save can be found on the:	
(0) Instanting	the right side of one
(a) Insert tab (b) Format tab	button 17. Which of the fail
(c) Home tab (d) ✓ Office menu 10. A special toolbandle	inten of the following contain on as
a special toolbar that is used to fail	status bar of Word?
sciected text is referred to as	(a) ✓ View commands
	(b) Minitoolbar
(a) Quick Access tool bar	(c) Quick Access toolbar
(b) Shorlcut toolbar	(d) Gallery
(c) ✓ Mini toolbar	18. Where is the Print Preview command
(a) Formatting (a)	found?
The leature that allows	
result of formatting changes on	
selected text before changes on	and the office ments
selected text before applying the	(c) On the Print tab
	(d) On the Title- bar
(a) Current Preview	19. Word saves files with a
	extension:
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Computer - MCQs 439 (b) dux docs (a) ALT+N (b) (c)√ docx (d) doxs CTRL+SHIFT+N (c) The default document name at the (d) 20.ALT+SHIFT+N start of MS Word is: Which of the following command is 28. (a)√ Document1 used store another copy of existing (b) Filel document with different name or as a (c) WPD1 (d) Wordl different format? 21. Which of the following allows you to (a)√ Save As (b) Store look at the document to determine (c) Copy (d) Convert how a printed copy will display? 29. Key for renaming a file is: (a)√ Print Preview (a) F4 (b) F2 Document Preview (b) (c)√ CTRL+F3 (c) View side by side (d) None of these (d) Full Screen Reading 30. Before you save a document, where is 22. Which button controls the it stored? magnification of the document that is (a) In RAM displayed? (b) On a floppy disk (a) Grow (b) Enlarge (c) On a hard disk (c)√ Zoom (d) Expand (d) In ROM Which view is the default in Word? 23. For help _____ function key is used: 31. (a) ✓ Print Layout (a)√ Fl (b) F2 (b) Draft View (c) F3 (d) F7 (c) Outline View Which of the following is used to exit 32. (d) a Word? Full screen Reading view 24. Which view removes tabs from the (a) File tab (b)[.] Office group $(c) \checkmark Office button$ display on your screen? (d) None of these (a) Print Lavout Which of the following can be used to (b) 33. Draft view move in a document? (c) **Outline View** Scrollbars (a) (d) ✓ Full screen Reading view Pointer to move insertion point (b) 25. Area in which text is entered. (c) Arrow keys manipulated & viewed is called: (d) ✓ All of the above (a) Text area Double clicking a word: 34. (b) Documentation area Selects a character (a) (c) ✓ Document window Selects whole line (b) (d) Window (c)√ Selects that word 26. Which of the following document Does nothing (d) view is best for typing and editing Which of the following is used to edit 35. quickly? text in a document? (a) ✓ Draft view Delete key (a) (b) Web Layout view Backspace key (b) (c) Document view Cut and paste feature (c) (d) (d) ✓ All of the above Outline view 27. Which of the following keys is used to Which key is used for creating a new delete characters in a document? 36. document? (a)√ CTRL+N

MCQs

(b)

Insert tab

(a) ✓ Home tab Backspace View tab (c)

Page layout tab (d)

Clipboard stores: 46.

Entered text (a)

(b)√ Copied text

Deleted text (c)

- Repeated text (d)
- Paste option is present on which groun 47. of Home tab?
 - (a)√ Font Clipboard (b)
 - (d) Styles Editing (c)
- To move text from one place in a 48. document to another, you should use the:
 - Copy and paste feature (a)
 - (b)√ Cut and paste feature
 - Delete and retype feature (c)
 - (d) Auto-move feature
- 49. The Copy button is used to:
 - Move text (a)
 - (b) ✓ Duplicate text
 - Revise text (d) (c) Delete text
- 50. Keyboard shortcuts for cut, copy and paste are:
 - (a) Ctrl Z, Ctrl C and Ctrl P
 - (b) ✓ Ctrl X. Ctrl C and Ctrl V
 - (c) Ctrl C, Ctrl y, Ctrl P
 - (d) None of these
- 51. Word gives you the option of:
 - Finding and replacing a word or (a) phrase
 - Finding without replacing ^a (b) word or phrase
 - Finding only one word at a time (c) in a document
 - (d) ✓ All of these are correct
- Which of the following is true about 52. thesaurus?
 - It recognizes different forms of (a) a word
 - antonyms and (b) It provides synonyms

None of these (c) \checkmark (a) and (b) (d)

The Thesaurus command is found on 53. which of the following tab?

Which of the following keys deletes 37. text to the right of the insertion point? Backspace (b)√ Delete Ya) Both Backspace and Delete (C) None of these (d) What key do you press to delete text 38. to the left of the insertion point? Del Left Arrow (b) (a) Esc $(c) \checkmark$ Backspace (d)

Neither (a) nor (b)

- Which mode replaces the existing 39. text?
 - (a) ✓ Overtype Replace (b)
 - Insert mode (c)
 - (d) Change
- 40. The Redo command:
 - Appears (a) on Quick Access Toolbar
 - Restores last action that was (b) undone
 - $(c)\sqrt{a}$ and (b) (d)None of these
- You can use the Undo feature to undo 41. (reverse):
 - Last action (a)
 - (b) Last two actions
 - Last three actions (c)
 - (d) All of the above
- Word provides which of the following 42. methods for copying and moving text?
 - Copy, Cut, and Paste buttons (a)
 - Drag-and-Drop method (b)
 - Office Clipboard (c)
 - (d) \checkmark All of the above
- 43. How many items can the Office Clipboard hold? (a)
- 4 (b) 7 (c)√ 24 (d) 44
 - 15
- Which of the following commands affect the contents of Windows clipboard? (a)√ Copy
 - (b) Paste
- (c) (a) and (b) (d) None of these Cut & Paste option is found on: 45.

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Delete

(c) \checkmark (a) and (b)

(b)

(d)

Con	ipatei		
	(a) Home tab (b) Review tab	63.	The
	(c) View tab (d) Insert tab	00.	
54.	Which function key is used for		app
	checking spelling and grammar in		(a)
	word?	64.	(c)
	(a) F1 (b) F2	04.	For
	(c)√ F7 (d) F12		is c
55.			(a)
	sentence would be caught by:		(b)
	(a) Spell check		(c)
	(b) The thesaurus		(d)
	(c)√ The grammar check	65.	The
	(d) None of these		has
56.			(a)
	in a Word document by a jagged:		(c)
	(a) Green line (b) (D is it	66.	WH
	(a) Green line (b) \checkmark Red line		sen
57.	(c) Blue line (d) Orange line		(a)
<i></i>	Potential grammar errors are		(b)
	identified in a Word document by a		(c)
	Jagged		(d)
	(a)√ Green line (b) Red line	67.	Wł
0	(c) Blue line (d) Orange line	0003690392	wo
8.	The Autocorrect feature is used to:		(a)
	(a) Correct errors in capitalization	·	(b)
	as they occur during typing		(c)
	(b) Expand user-defined		(d)
	abbreviations as the entries are typed	68.	Wł
	$(c) \checkmark$ (a) and (b)	00.	
	(d) Neither (a) nor (b)	<	opt
9.	The find and replacement strings must		(a)
	be:	(0)	(c)
	1.	69.	Dis
	(a) Same length(b) Same case		rig
	(c) Same L		(a)
	(c) Same length and same case $(d) \checkmark N$		(b)
0	None of these		(c)
	Spelling & Grammar check option is	70.	Ov
	resent III.		de
	(a) ✓ Review tab (b) Insert tab		(a)
1	1011 tab (d) View tet		(c)
	used to lindo the last action in	71.	Fe
	(CINIT/ /b) (CTDI /V	/1.	for
h	(c) CTRL+C (d) CTRL+C		0.00
2.	Key to select a till CTRL+C	1. 190. 1	(a)
	(a) CTPL +U (d) CTRL+C		(c)
	(a) CTRL+I (b) CTRL+D (c) ✓ CTRL+A (d) CTRL+O		(d)
	(1) (1) (1) (1) (1) (1) (1)	72.	W

63.	The typeface stude of 441
	The typeface style that determines the appearance of text is called: (2)
	(a) Type
	(a) Type (b) Style $(c) \checkmark$ Font (b) Style
64.	(d) Tu
	Formatting applied to individual letter is called:
	(a) \checkmark Character formatting
	(D) Word formatting
	(c) Letter formatting
	(d) Paragraph formatting
65.	The Change Case Command in Word
	has how many options?
	(a) 2 (b) \checkmark 5
	(c) 3 (d) 4
66.	
	suber makes the first letter of a
	sentence capital?
	(a) Uppercase
	(b) ✓ Sentence case
	(c) Toggle case
(7	(d) Title case
07.	Which case makes first letter of each
	word capital?
	(a) Uppercase
	(b) Sentence case
	(c) Toggle case
	(d) ✓ Title case
68.	Which tab contains Change Case
	option?
	(a) Insert (b) Page Layout
	$(c) \checkmark$ Home (d) Review
69.	Distance of paragraph form left or
07.	right margins is determined by:
	(a) Format painter
	(b) Margin point
1000000000	(c) Ruler (d)√ Indent
70.	Overall width of main text area is
	determined by:
	(a) Indent (b) Alignment
	(c)√ Margin (d) Ruler
71.	Feature of Word that lets you change
	font color, size, style etc. is called:
	(a) Styles (b) Font
	(c) Composing
	(d) ✓ Formatting
	(d) Formatting

72. Which of the following options is used to apply Drop Cap?

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0.000	0.
ocument	50

442		(c) Version of docu
	(a) Select the paragraph	$(d)\checkmark$ All of the above
	(b) Place cursor at start of	80. Which of the follow
	paragraph	changed using header
	(c)√ Place cursor anywhere in	(a) Font size
	paragraph	(b) Alignment of tex
	(d) Select the whole document	(c) Margins of the te
73.	Indention in Word is used to:	$(d) \checkmark$ All of the above
10.	(a) \checkmark Make the text readable	
	(b) Change the paragraph color	81. Which of the follo
	(c) Apply border around text	regarding headers and
	(d) Change line spacing	(a) Every document
74.	The text with left alignment appear on	least one header
1.11	the page with a:	(b) Every document
	(a) Uniform right margin and	least one footer
	uneven left margin	(c) (a) and (b)
	(b) Uniform right and left margins	(d) ✓ Neither (a) nor (b
	displayed	82. Which indent moves e
	(c) ✓ Uniform left margin and uneven	paragraph to right ex
	right margin	line?
	(d) None of these	(a) Left (b) \checkmark
75.	The most common type of bullets	(c) Right (d)
	used in a list are:	83. A indent will r
	(a) Squares (b) Triangles	first line of a paragraph t
	(c) \checkmark Small round dots	
76.	(d) Hyphens	(a) Left (b) (c) Right (d) \checkmark)
70.	Which option is used to move a	84. Margins can be abare 1
	bulleted list to the right?	sins can be changed:
	 (a) ✓ Increase Indent button (b) Decrease Indent button 	Bit margin or
	(b) Decrease Indent button(c) Bullet button	Bat and full filler
	(d) All of these	(c) Bottom margin only $(d) \checkmark$
77.	Tabs can be used to 1	(d)√ For right, left, top
	Tabs can be used to align text in column as text:	margins
	(a) Lett-aligned	many types of Pag
	(0) Right aligned	avanable?
	(C) (enter all	(a) Five (b) T
78.		
70.	of multipers can a	rage breaks entered by
	 (a) Bottom of page only (b) Top of page 	suncu.
	 (b) Top of page only (c)√ Either (c) 	(a) Soft page breaks
	(d) Nor (a) or (b)	flard page breaks
79.	(d) None of these The text can be added to header or (a) Document	Sell page breaks
	footer to identic added to head	automatic man 1
		or caks may be incerte
	(b) Document author	a PUL a document
	author	2000m of J
		(c) Ein document

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(c) Version of document
(1) (All of the ob-
80. Which of the following on
80. Which of the following can be changed using header or footer?
(a) Font size
(b) Alignment of text
(c) Margins of the text
$(d) \checkmark$ All of the above
81. Which of the following is true
regarding headers and footers?
(a) Every document must have at
least one header
(b) Every document must have at
least one footer
(c) (a) and (b)
(d) \checkmark Neither (a) nor (b)
82. Which indent moves every line of a
paragraph to right except the first
line?
(a) Left (b)√ Hanging
(c) Right (d) First line
83. A indent will move only the
first line of a paragraph to the right:
(a) Left (b) Hanging
 (a) Left (b) Hanging (c) Right (d)√ First line
34. Margins can be changed:
(a) For right margin only
(b) Right and left margin
(c) Bottom margin only
(d) ✓ For right, left, top and bottom
margins
5. How many tax of the off
5. How many types of Page breaks are available?
(a) E:
(c) (c) (c) (c)
6. Page bread (d) Ten
b. Page breaks entered by the user are caned:
(a) Soft page breaks
() flard nage breater
OCI Dago has 1
Allomatic 1
and may be inserted af:
 (a) Top of a document (b) Bottom of d
Dollom of 1

- Computer MCQs The settings that determine the setup \$8. of a page include the following: Margins (b) Orientation (a) Paper size (c)(d)√ All of the above Direction of paper in printing is 89. referred to as: Directional position (a)(b)√ Orientation (c) Page style Page position (d) Page numbers may appear at: 90. Header only (a) (b) Footer only (c) ✓ Header or footer (d) None of these How many orientation types 91. are available? (a) Four (b)√ Two (c) Five (d) One 92. The normal orientation for printing is: (a) ✓ Portrait Vertical (b) (c) Landscape (d) None of these 93. Which of the following are set at paragraph level? Alignment (a) Line spacing (b) Tabs and indents (c) $(d) \checkmark$ All of the above What will be true for width and height 94. of page in portrait orientation? (a) Height and width will be same (b)√ Height will be larger than width Width will be large then height (c) (d) All of the above 95. Key used for 1.5 line spacing is: (a) CTRL+1.5 (b) CTRL+1 (c)√ CTRL+5 (d) None of these 96 Shortcut key used to increase text size is: (a) CTRL+} CTRL+{ (b) SHIFT+} (c) ✓ CTRL+} (d) 17. You can decrease text size by using: CTRL+} (a)✓ CTRL+((b)
- 443 (c) CTRL+) (d) SHIFT+! 98. Which of following key is us d to bold a text: (a) CTRL+SHIFT+B CTRL+ALT+B (b) (c)√ CTRL+B (d) CTRL+D 99. Which of the following is and example of super script: (a) $\checkmark D^2$ (b) D_2 (c) D2 (d) D+-2 100. The Font Color is located in the group on the Home tap: (a) Paragraph (b) Styles (c) Clipboard (d)√ Font 101. The Format Painter button is located in the _____ group on the Home tab: (a) Paragraph (b) Styles (c)√ Clipboard (d) Font 102. When you press the Format Painter button, the mouse appears as a: (b) ✓ Paint brush (a) Pen Paint can (c) All of the above (d) 103. Which numbering scheme can be used with page numbers? Roman numerals (a) (b) Regular numbers Letters (c) (d) All of the above 104. Character formats include: Italic Bold (b)[.] (a) Underline (c) (d) \checkmark All of the above 105. Font effects include: Double strikethrough (a) Superscript (b) Emboss (c) (d) \checkmark All of the above Tables are used to display: Numeric information 106. (a) Text (b) (c) Graphics (d) ✓ All of the above 07. You can line up text on the following sides of a table: Right (b)
 - (a) Left

444 and these
(c) Middle $(d)\sqrt{\text{All of these}}$ it to red in a table, it
(c) Middle (d)v Anotable, it 108. When text is entered in a table, it side
108. When text is entered in a side automatically appears at side
(a) Right (b) Bottom (c) Center (d) Bottom in a
(c) Center (d) Bottom in a 109. Intersection of row & column in a
La oregies
() $(cell)$ (b) box
(a) Mark (d) I onne
110. Table can be created by using:
(a) Insert Table
a) Draw table
() (a) and (b) (d) None of these
111. Which option is used to apply 111 . Which option is used to apply
predefined styles on tables?
(a) Preset style
(a) Freset style (b)√ Table style
(c) Quick Tables
(d) None of these
hanges the size of CEUS
112. Which option changes the size of cents according to data?
(a) AutoFit to Window
(b) \checkmark AutoFit to contents
(c) AutoFit to Rows
(d) Fixed column width
113. Insert table is found in Tables group
on tab:
(a) Home (b)√ Insert
(c) Review (d) View
114. While drawing a table, mouse pointer
changes to:
(a) ✓ Pencil (b) Pen
(c) Marker (d) Highlighter
115. To move around in a table, you can
use:
(a) The mouse pointer
(b) The Tab key
(c) The arrow keys
(d) ✓ All of the above
116. Which of the following keys is NOT
used to move in a table?
(a) \checkmark Enter (b) Tab
(C) ATTOWE (d) OI : 0
- The Tault Droperties define at
(a) Table (b) Rows
(°) KOWS

Columns MICO.
(c) Columns
(d) All of the above
118. You can change the structure of a
table DV:
(a) Adding and deleting column.
and rows
(b) Splitting and merging cells
(a) Changing the height of rows
$(d) \checkmark$ All of the above
119. You can add to change the
1 1 als of a table:
(b) Borders
(a) Lines (c) Shading (d)√ All of these
120. The sides of the cells in a table are
120. The sides of the cents in a faste at
called:
(a) Grid patterns
(b) ✓ Borders
(c) Boxes (d) Matrices
121. Which of the following can be
selected in a table?
(a) A single cell
(b) A single row or column
(c) Multiple rows and columns
$(d) \checkmark$ All of the above
122 The Microsoft Clip Organizer
contains all the following EXCEPT:
(a) ✓ Word document
(b) Clip art
(c) Photographs
(d) Sound clip
123. Which object can be inserted in a document from Microsoft Clip
document moni iviteroser
Organizer?
(a) Sound (b) Clip art
(c) Photographs
(d) All of the above
124. The gallery in Word offers
preformatted picture formats:
(a) Image styles
(b) Picture Format
(c) ✓ Picture styles
(d) Image and Format
125 The mail merge is used to:
(a) Merge main document with data
source

(a) Merge main document with source
 (b) Scanned with CamScanner

- (c) Identify a data source
- (d) All of the above
- 126. Which of the following is true about a mail merge?
 - The same form letter can be (a) used with different data sources
 - The same data source can be (b) used with different form letters.
 - $(c)\sqrt{a}$ (a) and (b)
 - (d) Neither (a) nor (b)
- 127. Merged documents may be sent directly to:
 - Email address (a)
 - (b) Fax machine
 - (c) Printer
 - (d)√ All of the above
- 128. The first step of the Mail Merge Wizard after choosing your form type is:
 - (a) ✓ Next: Starting document
 - (b) Next: Write your letter
 - (c) Next: Select Recipients
 - Next: Preview your letters (d)
- 129. The Mail Merge Wizard guides you through which procedures?
 - Setting up a letter (a)
 - Selecting the recipients (b)
 - (c) Locating or creating a data source
 - (d) \checkmark All of the above
- 130. Which of the following can be merged?
 - (a) All records
 - (b) Current records
 - (c) Selected range of records
- (d) ✓ All of the above "
- 131 WordArt is available on the tab:
 - (a) Clip Art (b)√ Insert
 - (c) Graphics (d) View
- 132. You cannot Word close MS application by:
 - (a) Choosing File menu then Exit submenu (b)
 - Press Alt+F4 (c)
 - Click X button on title bar

- 445 (d)√ From File menu choose Close
- submenu 133. The key F12 opens a:
 - (a) \checkmark Save As dialog box
 - Open dialog box (b)
 - Save dialog box (c)
 - Close dialog box (d)
- 134. What is the short cut key to open the Open dialog box?
 - (a) F12 (b) Shift F12
 - Alt + F12 (d) \checkmark Ctrl + F12 (c)
- 135. A feature of MS Word that saves the document automatically after certain interval is available on:
 - (a) ✓ Save tab on Options dialog box
 - Save as dialog box (b)
 - (a) & (b) (c)
 - (d) None of these
- 136. Where can you find the horizontal split bar on MS Word screen?
 - (a) On the left of horizontal scroll bar
 - On the right of horizontal scroll (b) bar
 - (c) \checkmark On the top of vertical scroll bar
 - (d) On the bottom of vertical scroll bar
- 137. Which of the following is not available on the Ruler of MS Word screen?
 - Tab stop box (a)
 - (b)√ Left Indent
 - **Right Indent** (c)
 - Center Indent (d)
 - All of them are available on (e). ruler
- What is place to the left of horizontal 138. scroll bar?
 - Tab stop buttons (a)
 - View buttons (b)
 - Split buttons (c)
 - (d)√ Indicators
 - None of these (e)
- Which file starts MS Word? 139.
 - (a) ✓ Winword.exe
 - (b) Word.exe

- Msword.exe (c)
- Word2003.exe (d)
- 140. How many ways you can save a document?
 - 4 (b) (a)√ 3

(d)(c) 5

141. If you want to keep track of different editions of a document which features will you use?

6

- (b)√ Versions Editions (a)
- Track Change (c)
- All above (d)
- Background color or effects applied 142. on a document is not visible in:
 - Web layout view (a)
 - Print Layout view (b)
 - Reading View (c)
 - (d) ✓ Print Preview
- 143. What is a portion of a document in which you set certain page formatting options?
 - Document (b) (a) Page
 - Page Setup (c)√ Section (d)
- 144. Borders can be applied to:
 - (b) Paragraph Cells (a)
 - (d)√ All above (c) Text
- 145. Which of the following is not a type of page margin?
 - Right (b) (a) Left
 - (d) Тор (c)√ Center
- 146. What is the default left margin in Word 2003 document?
 - (b)√ 1.25" 1" (a)
 - 1.5" 2" (d)(c)
- 147. What is gutter margin?
 - Margin that is added to the left (a) margin when printing
 - Margin that is added to right (b) margin when printing
 - Margin that is added to the (c)√ binding side of page when printing
 - Margin that is added to the (d) of the page outside when printing
- 148. Portrait and Landscape are:

- (a) ✓ Page Orientation
- Paper Size
- (b)
- Page Layout (c)
- All of above (d)
- 149. If you need to change the typeface of a document, which menu will you choose?
 - Edit (b) View (a)
 - (c)√ Format (d) Tools
- 150. Which of the following is not a font style?
 - (b) Italics Bold (a)
 - (d) ✓ Superscrim Regular (C)
- 151. Pressing F8 key for three times selects:
 - A word (a)
 - (b)√ A sentence
 - A paragraph (c)
 - Entire document (d)
- What happens if you press Ctrl + Shift 152. + F8?
 - It activates extended selection (a)
 - (b)√ It activates the rectangular selection
 - It selects the paragraph on (c)which the insertion line is located
 - None of these (d)
- 153. How can you disable extended selection mode?
 - Press F8 again to disable (a)
 - (b) Press Del to disable
 - (c) \checkmark Press Esc to disable
 - Press Enter to disable (d)
- 154. What does EXT indicator on status bar of MS Word indicate?
 - It indicates whether the external (a) text is pasted on document or not
 - It indicates whether extended (b) add-ons are installed on MS Word or not
 - (c)√ It indicates whether Extended Selection mode is turned on or off
 - None of these (d)

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155. What is the first a drop cap?	
(a) $\frac{3}{(d)}$ (b) \checkmark 10	
(a) 15 (d) 20	
what is the default number of lines to	
156. What is the definition number of fines to drop for drop cap?	
$(a)\sqrt{3}$ (b) 10	
(a) 15 (d) 20	
157. What is the shortcut key you can press	
to create a copyright symbol?	165.
$(a) \checkmark Alt+Ctrl+C$	105.
(b) Alt + C	
(c) $Ctrl + C$	
(d) $Ctrl + Shift + C$	166.
158. How many columns can you insert in	100.
a word document in maximum?	
(a) 35 (b)√ 45	
(c) 55 (d) 65	
159. What is the smallest and largest tont	167.
size available in 'Font Size' tool on	
formatting toolbar?	
(a) \checkmark 8 and 72 (b) 8 and 64	
(c) 12 and 72	l l b
(d) None of these	
160. What is the maximum font size you	168.
can apply for any character?	. (
(a) 163 (b) \checkmark 1638	
(c) 16038	(
(d) None of these	
161. Which of the following is graphics	(
solution for Word Processors?	
(a)√ Clipart (b) Word Art	
(c) Drop Cap (d) All above	
162. The keystrokes Ctrl + I is used to:	169.
(a) Increase font size	
 (a) Increase font size (b) Inserts a line break 	
(c) Indicated a line break	121,2126,1
(c) Indicate the text should be bold	
(d) Applies italic format to selected	
¹⁶³ . A character that is raised and smaller	• .
abound that is raised and smaller	and the second
(a) the baseline is known as:	
Outlined (b) Raised	
164. (c) Superscript (d) Subscript	. same
^(c) Superscript (d) Subscript What is the purpose of inserting header and footer in document?	170.
header and footer in document?	
	15 I I

_		
	(a)	To chance 447
		To enhance the overall
	(b)	
		To mark the starting and ending of page
	` /	To make large document more readable
		i cadattic
	(-)	To allow page headers and
		rooters appear on document
5	White	when printed
5.	vv mit	ch of the following function key
	activ	ates the speller?
	(a)	F5 (b)√ F7
	(c)	F9 (d) Shift + F7
6.	The	minimum number of rows and
		nns in MS Word document is:
		l and l (b) 2 and 1
	(c)	2 and 2
		None of these
7.	These	aurus tool in MS Word is used
	for:	·
	(a)	Spelling suggestions
		Grammar options
		Synonyms and Antonyms words
	(d)	All of above
8.		Drop Caps are used in
		ment?
	(a)	To drop all the capital letters
	(b)	To automatically begin each
		naragraph with capital letter
	(c)	To begin a paragraph with a
	(0)	large dropped initial capital
		letter
	(1)	None of these
	(a)	okmark is an item or location in
9.	A 00	ment that you identify as a name
	docu	future reference. Which of the
	for 1	future reference. by
	follo	wing task is accomplished by
	using	bookmarks?
	(a)	To add anchors in web page
	(h)	To mark the
	(0)	paragraph of document
1	(0)/	
*	(0).	location webbage
+ 13	(d)	
	(a)	to accessor would most

(d) To add up to A word processor wo be used to do:

(a) Keep an account of money spent(b) Do a computer search in media	 (b) From Insert menu choose pa Number and specify necess (c) ✓ Click on Page Number Forn
(b) Do a computer search	setting
(b) Do a computer search	(c) Click on Page Number
(b) Do a computer search	(c) ✓ Click on Page Number E
center	tool and specify required settin
(c) Maintain an inventory	(d) All of above
(c) Maintenbography (d) \checkmark Type a biography What happens when you click on What happens \Rightarrow Clip Art:	and the following of
	177. Which of the following statement
What happens >> Clip Art: Insert >> Picture >> Clip art:	false? (a) You can set different head
(a) It inserts a clipart p	(a) You can set different head
• • • • • • • • • • • • • • • • • • •	footer for even and odd pages
(b) It lets you choose chipart to	(b) You can set different part
insert into document	number formats for differe
(c) It opens Clip Art taskbar	sections
No. No. of these	(c) You can set different head
Which option is not available in moer	footer for first page of a section
Table Autofit behavior?	(d)√ You can set different header an
(a) Fixed Column Width	footer for last page of a section
(b) AutoFit to Contents	178. Where can you change the vertica
(c) Autofit to Window	alignment?
(d) Autofit to Column	(a) Formatting toolbar
To out of it the width of column.	(b) Paragraph dialog box
(a) \checkmark Double click the right border of	$(c) \checkmark$ Page Setup dialog box
column	(d) Standard toolbar
(b) Double click the left border of	170 To get to the 'Symbol' dialog out
column	click on the menu and chow
	'Symbol'.
(d) All of above	(a) Insert (b) Formal
From which menu you can more	(d) Table
	190 Which of the following symbol st
	most likely lu voi
	sign, greater than or equal to, or
	(a) Wingdings (b) Wingdings
	(a) Wingdings (b) Symbol (c) Webdings (d) Symbol
	(c) Webdings $(d) \checkmark$ Symbol 181. When assigning a shortcut key v
(b) ✓ Click on Switch between Hader	181. When assigning a shortcut key symbol, you should always try a solocit a key or key combination the
	symbol, you should always the select a key or key combination the
(c) (a) & (b)	is:
(d) None of these	(a) ✓ Unassigned
When inserting Page number in footer	(1) the the tell-way
it appeared I but you wish to show a	(b) Located on the section of your keyboard.
(a) Energy of that?	 (c) Assigned to another task (d) From the same font family the symbol
ionnal inenti chooco	(d) From the same font land
configure pages	the symbol
configure necessary setting	and the second of the second
	 document (b) It lets you choose clipart to insert into document (c) ✓ It opens Clip Art taskbar (d) None of these Which option is not available in Insert Table Autofit behavior? (a) Fixed Column Width (b) AutoFit to Contents (c) Autofit to Window (d) ✓ Autofit to Column To autofit the width of column: (a) ✓ Double click the right border of column (b) Double click the left border of column (c) Double click the left border of column (b) Double click the column header (d) All of above From which menu you can insert Header and Footer? (a) Insert Menu (b) ✓ View Menu (c) Format menu (d) Tools Menu After typing header text, how can you quickly enter footer text? (a) Press Page Down key and type the text for footer (b) ✓ Click on Switch between Hader & Footer then type the text (c) (a) & (b) (d) None of these When inserting Page number in footer it appeared 1 but you wish to show a. How can you do that? (a) From format menu choose bullets and Menu

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171.

172.

173.

174.

175.

176.

- Computer inc Co 152. Suppose you wanted to create an AutoCorrect entry that would type the words We regret to inform you that your submission has been declined. Of the following choices: which would be the best name you could assign to this entry?
 - (b)√ Subdual Regret (a)
 - We regret to inform you that (c) vour submission has been declined
 - None of these (d)
- 183. If you want to convert a symbol or of text into several lines an AutoCorrect entry, you should:
 - (a)√ Insert the symbol or type the text in. a Word document first. Then, select the text or symbol and go to the AutoCorrect dialog box
 - Click the Tools menu and (b) choose AutoCorrect Options. Then, click the Insert menu and choose Symbol (or click the Format menu and choose Paragraph) to add the symbol or paragraph to Auto Correct.
 - (c) AutoCorrect can only accommodate one line of text. It is not possible to convert a symbol or multiple lines of text into an AutoCorrect entry.
 - (d) Insert the symbol or type the text in a Word document first. Then, select the text or symbol and click the Edit menu followed by Paste Special. Select New AutoCorrect Entry
- ¹⁸⁴. AutoCorrect was original designed to replace _____ words as you type:

 - Short, repetitive (b)
 - Grammatically incorrect
 - (c)√ Misspelled None of the above

- 185. Which of the following is the second step in creating a macro?
 - (a) Start recording (b) ✓ Using your mouse or keyboard,
 - perform the task you want to automate (c)
 - Assign a keyboard shortcut to the macro (d)
 - Give the macro name
- 186. If you will be displaying or printing your document on another computer. you'll want to make sure and select the
 - option under the 'Save' tab:
 - (a) Embed Fonts
 - (b)√ Embed True Type Fonts
 - Save True Type Fonts (c)
 - (d) Save Fonts
- 187. In Word, the mailing list is known as the
 - Data sheet (b) Source (a)
 - (c) ✓ Data source (d) Sheet
- 188. Which of the following is not one of the three 'Mail Merge Helper' steps?
 - Merge the two files (a)
 - Create the main document (b)
 - (c)√ Set the mailing parameters
 - Create the data source (d)
- 189. Which of the following button will allow you to add, delete, or change records in your Data Source?
 - (a) 'Data Source' button
 - (b) 'Edit' button
 - (c) ✓ 'Edit Data Source' button
 - 'Data editing' button (d)
- 190. It is possible to _____ a data Source before performing a merge:
 - (b) Modify (a) Create
 - (c) Sort
 - (d) ✓ All of the above
- What is the default font size of a new 191. Word document based on Normal template?
 - (b)√ 12 pt 10 pt (a) (c) 14 pt

 - None of these (d)

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- What is the default font used in MS 192 Word document?
 - (a) ✓ Times New Roman
 - (b) Arial
 - Preeti (c) Algerian (d)
- 193. Which tab in Font dialog box contains options to apply font effects?
 - (a)√ Font tab
 - Character Spacing (b)
 - Text Effects (c)
 - (d) Standard Toolbar
- 194. If you need to double underline a word, how will you do that?
 - Go to Format menu and then (a) Font option. Open Underline Style and choose. Double Underline
 - From Format menu choose Font (b) option and then from Font tab open Underline Style and select Double Underline
 - (c)√ Select the text then choose Format >> Font and on Font tab open Underline Style and choose Double Underline
 - Click double underline tool on (d) formatting toolbar
 - 195. Drop Cap means:
 - All Caps (a) Small Caps (b)
 - (c) Title case
 - (d) ✓ None of these
 - 196. What is the short cut key to open Font dialog box?
 - (a) Ctrl + F
 - (b) Alt + Ctrl + F
 - (c) \checkmark Ctrl + D
 - Ctrl + Shift + D (d)
- 197. How can you access the font size tool on formatting toolbar?
 - (a) Ctrl + S
 - Ctrl + Shift + S (b)
 - (c) Ctrl + P
 - (d) \checkmark Ctrl + Shift + P
- 198. How can you make the selected character superscripted? (a) Ctrl + =

- (b) \checkmark Ctrl + Shift + =
- Alt + Ctrl + Shift + =(c)
- None of these (d)
- What does Ctrl + = key effect? 199.
 - Superscript (b) ✓ Subscript (a) All Caps (c) (d)
 - Shadow
- 200. What happens if you mark on Hidden check box of Font dialog box after vou select some text?
 - The text is, deleted from (a) document and you need to bring from Recycle Bin if required again
 - (b)√ The text is hidden and you need to bring it by removing the check box if needed again
 - The text is deleted and cannot (c) be returned back
 - The text is hidden and. cannot (d) be returned back
- 201. How can you increase the font size of selected text by one point every time?
 - (a) ✓ By pressing Ctrl +]
 - By pressing Ctrl + [(b)
 - (c) By pressing Ctrl + }
 - (d) By pressing Ctrl + {
- 202. Which of the following line spacing is invalid?
 - (a) Single Double (b)
 - (c)√ Triple (d) Multiple
- 203. How can you apply. exactly the same formatting you did to another text?
 - (a) Copy the text and paste in new location. Then type the new text again.
 - Copy the text and click on Paste (b) Special tool on r: lew place
 - Select the text then click on (c)√ Format Painter and select the new text

Harras ha thorigh

- (d) All of above
- 204. What should you do if you require pasting the same format in many places?

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Computer - MCQs	
Computer Click the Format painter and go	451
(a) Click the Format painter and go on pasting in many places	 (a) Insert Menu(b) ✓ Format (c) Tools
holding Alt Key	
by Double click the format painter	-12. Now many different
then go on pasting in many	
places	(a) 1 (b) $\sqrt{2}$
(c) Click the format painter then go	
on pasting to many places	215. What is the maximum num 1
holding Ctrl Key	To The source of
(d) All of above	(h) 5
205. On which tool bar can you find	$(C) \vee 10$ (d) 10
Format Painter tool?	214. Which of the following comments
(a)√ Standard toolbar	to create parallel style column'
(b) Formatting toolbar	(d) Format Tabs
(c) Drawing toolbar	(b) Table Insert Table
(d) Picture toolbar	(c) Insert Textbox
206. Which indent marker controls all the	(d) ✓ Format Columns
lines except first line?	215. Which of the following is used to
(a) First Line Indent Marker	oreate newspaper style columns?
(b) ✓ Left Indent Marker	(a) Format Tabs
(c) Hanging Indent Marker	(b) Table Insert Table
(a) Right Indent Marker	(c) Insert Textbox
207. How can you remove tab stop morleans	(d) ✓ Format Columns
nom ruler;	216. Columns dialog box can be opened from:
(a) Double click the tab marker and	nom.
choose Clear All	
(b) ✓ Drag the tab stop marker out of	(b) Double click on column space in ruler
the fuller	(c) Press Alt + $O + C$
- Sin click the tab stop marker	(d) ✓ All of above
(d) All choose remove	217. You can jump to the next column by:
 (d) All of above Which operation you will perform if you need to move a block of text? 	(a) Clicking with your mouse on
You peod in you will perform if	the next column
you need to move a block of text?	(b) Press Alt + Down-arrow
	$(c) \checkmark (a) \& (b)$
1 Ull and D	(d) None of these
asle and Deleto	218. How can you break the current
(d) Paste and Delete What is the extension of Word files? (a) FIL (b) DOT	column and start a new column
(a) Fir extension of Word files?	immediately?
210 (c) DOC (b) DOT	(a) ✓ Press Ctrl + Shift + Enter
	(b) Press Alt + Enter
available in t following option is not	(c) Press Ctrl + Enter
available in Insert >> Picture?	(d) Press Alt + Shift + Enter
211. (c) Chart (b) Word Art To incide (d) Graph	219. What is the smallest width of a
	column?
211. (c) Clip A (b) Word Art To insert a drop cap in one of the paragraph you should access:	(a) 0" (b) ✓ 0.5"
should access:	(c) 1" (d) 1.5"-

- 220. If the number of columns is selected 1 and the line between check box is marked, where is the line drawn?
 - in the left margin (a)
 - (b)in the right margin
 - both in left and right margin (c)
 - (d)√ None of these
- 221. The other Col# are inactive when you've select 3 columns. How will you activate those boxes?
 - Double click on spacing box (a)
 - Double click on inactive Col# (b)
 - Line from mark Remove (c) between checkbox
 - from Equal (d)√ Remove mark Column Width check box
- 222. How much space in minimum must be provided between columns?
 - 0.5" (b) (a)√ 0"
 - (d) 1.5" (c) 1"
- 223. To open Columns dialog box quickly:
 - Double click on the left margin (a) area of ruler
 - (b) ✓ Double click the space between area on ruler
 - Double click the right margin in (c) ruler
 - All of above (d)
- 224. Which of the following command is not available in Tools menu?
 - (a)√ Auto text
 - Autocorrect (b)
 - (c) Auto summarize
 - (d) Macro
- 225. To move .the cursor page to page of document:
 - Ctrl+PgDn (a)
 - Ctrl+PgUp (b)
 - (c) (a) & (b)
 - (d) None
- 226. Text boundary can be displayed or hidden from:
 - (a) Auto text option from Insert menu
 - (b) ✓ Options from Tools menu
 - Customize from Tools menu (c)

- 227. Which of the following are won processing software?
 - Word Perfect (a)
 - Easy Word (b)
 - MS Word (c)
 - (d)√ All of above
- 228. MS Office provides help in man ways, which of these is one of them?
 - What is this? (a)
 - Office Assistant (b)
 - Help menu (c)
 - (d) \checkmark All of the above
- 229. You wished to justify text over t height of paper, which option will w choose.
 - (a) ✓ Page Setup from File menu
 - (b) Paragraph from Format menu
 - From formatting toolbar (c)
 - Font from Format menu (d)
- 230. Which of the following is not of t merge process?
 - (a) ✓ Sort the data source records
 - Format a main document (b)
 - Edit a data source (c)
 - Merge the two files to print (d) create a new document
- 231. Which of the following is not val version of MS Office?
 - Office XP (a)
 - (b) ✓ Office Vista
 - (c) Office 2007
 - (d) None of these

MICROSOFT EXCEL

Feature of Excel

Introduction:

Microsoft Excel: Microsoft Excel commonly used spreadsheet software offices and at home. It is used to manal data in rows and columns. Excel provide the facility to perform different types calculations on data easily using formula and built-in functions. It can also be used create a wide range of graphical charts.

Following are some important features of MS Excel:

1. AutoFill: AutoFill feature is used to automatically fill cell with data such as a series of numbers, dates etc.

2. AutoComplete: AutoComplete feature is used to complete data automatically. The user may be typing a word that has already been used in another cell. Excel can complete it automatically.

3. Built-in Functions: Microsoft Excel has many built-in functions. The function name tells Excel what calculation to perform. The functions can perform lengthy calculations on worksheet easily and quickly.

4. Sorting: Sorting is the process of arranging data in a particular order. The data can be sorted in ascending or descending order.

5. Chart: Charts are graphical representation of data. Excel provides different types of charts. These charts can be formatted, resized or moved.

6. Filter: The required data can be displayed in a worksheet by giving criteria using this feature. The remaining data is hidden temporarily. For example, the user can display the records of only passed students.

7. Subtotal: This feature is used to summarize data/with reference to a particular field. The summary of data may be sum, average or maximum etc.

8. Recalculation: Recalculation is an important facility of Excel. The result of a formula is automatically recalculated if there is any change in the referenced cell.

9. Protection: This feature is used to protect a particular data or whole sheet the user can also un-protect the protected data later.

10. PDF Writer: Excel includes a built-in PDF writer. It is used to save worksheets in PDF format.

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11. Printing: Excel provides printing facility. The user can print the documents to get a hard copy. Printing can be of whole document or of any required range.

MCQs

- 1. Which program is used to manage expenses, budgets and financial analysis?
 - (a) Storyboard
 - (b) Graphing
 - (c) Planning
 - (d)√ Spreadsheet
- 2. Which of the following is spreadshee software?
 - (a) AVG (b)√ Excel
 - (c) McAFee (d) Symantee
- 3. Which of the following is NOT an element of Excel interface?
 - (a) Office Button
 - (b) Quick Access Toolbar
 - (c) Ribbon (d) \checkmark Start button
- 4. Tabs, groups and commands make up the:
 - (a)√ Ribbon
 - (b) Quick Access Toolbar
 - (c) Office Menu
 - (d) Title bar
- 5. Which of the following is used to display similar groups of items on the Ribbon?
 - (a) Office menus
 - (b) Ribbons
 - (c) Dialog boxes
 - (d)√ Tabs
- 6. The title bar in Excel displays the name of:
 - (a) Worksheet
 - (b)√ Workbook
 - (c) Formula (d) User
- 7. The frequently used commands such as Save, Undo, and Redo appear on
 - (a) Title bar
 - (b) ✓ Quick Access Toolbar
 - (c) Formula bar
 - (d) Start button
 - A workbook is a group of:

8.

4 ...

454	19. Which of the following to
(a) Rows (b) Columns	19. Which of the following displays cell address or name of the set
(c)√ Worksheets	cell address or name of the
(d) None of these	cell?
9. A workbook with 6 worksheets would	(a) Cell locator
be saved as file(s):	(b) ✓ Name box
$(a) \checkmark 1$ (b) 2	(c) Address box
(c) 3 (d) 4	(d) Cell display
A worksheet in Excel is divided into:	20. To make a cell active,
(a) ✓ Columns and Rows	(a) ✓ Click (b) Highlight
(b) Lines and spaces	(c) Right-click
(c) Height and width	(d) Drag the mouse over
(d) Layers and planes:	21 displays the contents of ac
11. The column headings in the	cell and the formula as user type th
spreadsheet are identified by:	(a) Name box (b) ✓ Formula b
(a) ✓ Alphabets (b) Numbers	(c) Active cell (d) Taskbar
(c) Symbols (d) Titles	22 can be one cell or a group
12. The row headings in a spreadsheet are	cells:
identified by:	(a) Cell ranges (b) Formulas
(a) Alphabets (b) ✓ Numbers	(c) Functions (d) Procedures
(c) Numbers and Alphabets	23. The is found in the both
(d) Symbols	right hand corner of an active cell:
13. The name of worksheet in Excel	(a) Sizing handle
appears on:	(b) Pointer
(a) \checkmark Sheet tab (b) Tab	(c) ✓ Fill handle
(c) Title bar (d) Task bar	(d) Insertion point
14. The default name of first worksheet in	24. Which of the following key to set
a workbook is:	nonadjacent cells?
(a) Sheet First (b)√ Sheet 1	(a) Enter (b) Tab
(c) Sheet one (d) First sheet	(c) Shift (d)√ Ctrl
5. What is the basic unit of a worksheet	25. Which of the following key is used
in which a user enters data?	select adjacent cells?
(a) Tab (b) Range	(a) Enter (b) Tab
(c)√ Cell (d) Box	(c)√ Shift (d) ('trl
6. Which of the following is a correct	26. Which of the following command
cell address?	used to move data from our
(a) AA (b) 25	another in Excel?
(c) 38 (d)√ C5	(a) Move (b) Copy
The data in a cell can be edited using:	(c)√ Cut (d) Paste
(a) ✓ Formula bar	27. Ctrl+X is used for:
(b) Task bar	(a) Format (b) Copy
(c) Title bar (d) Name box	$(c) \checkmark Cut$ (d) Paste
. The default border color of selected	29 Ctuli C is used for
cell is:	(a) Format (b) Copy
(a) White (b) ✓ Black	(c) Cut (d) Paste
(c) Dotted (d) Green	29. Ctrl+V is used for:

Computer - MCCo Cut (d) Paste	
(c) Cut (d) Paste (c) Cut following text is stored	41. A built in 455
which of the following text is stored	oullt-in formal
clinboard?	anounations is known
(a) Deleted text	 (a) ✓ Function (b) Procedure (c) Reference (d) Procedure
a) Copied text	Nordenee (d) ve
(c) Enter text (d) Repeated text	incli function is much
31. Changing the appearance of a cells	(a) HIGH a given rang?
contents is called.	$(c) \checkmark May$ (b) BIG
(a) Editing (b)√ Formatting	43. Which of the fell
(c) Charting (d) Selecting	43. Which of the following formulas is in. the correct format?
32. The Font group is located under the	the concertormat?
tab:	(0) - (0+1)
(a) Insert (b) Edit	(c) $=3C + 56$ (d) $=12H - 8$ 44. SORT and SUM in Facel
(c) \checkmark Home (d) View	and SOM in Excel are two
33. The size of a font is measured in:	examples of:
(a)√ Points (b) Pixels	(a) ✓ Functions (b) Procedures
(c) Units (d) Liters	(c) References (d) Equations 45. The formula in Excel channel
34. By default, the text in a cell is aligned	45. The formula in Excel always begins with:
to:	
(a)√ Left (b) Right	
(c) Center (d) Top	(c) # (d) $<$ 46. Cl2 is a:
35. By default, the numbers in a cell is	
aligned to:	(a) Column name
(a) Left (b)√ Right	(b) Row name
(c) Center (d) Top	(c)✓ Cell reference (d) Worksheet name
36 are used to perform difficult	
calculations easily:	47. The cell range from A3 to G3 should
(a)√ Functions (b) Styles	be written as: (a) $A^2 C^2$ (b) ($A^2 C^2$
(c) Algorithms (d) Features	(a) A3-G3 (b) \checkmark A3:G3
37. B5:Cl0 is an example of a cell:	(c) A3G3 (d) A3 to G3
(a) Location (b)√ Range	48. The values given to function for
(1) Style (1) Commut	calculations are called:
38. To find the area if	(a) Formulas (b) Arguments
^{38.} To find the smallest number in a range	(c) Syntax (d) Command
of cells, use the function:	49. Which of the following is not a valid
(a) \checkmark MIN (b) MAX	Zoom percentage in Excel?
MALL (d) LOW	(a) 10 (b) 100
to delermine the high	(c) 300 (d) \checkmark 500
	50. The spelling tool is placed on toolbar:
functions.	(a)√ Standard
(a) GREATER (b) LARGE	(b) Formatting
	(c) Drawing
SACE USES	n n n n n n n n n n n n n n n n n n n
Feiglions	a text to show vertically
operations to produce calculated.	51. If you need a text to antieve this? a cell. How will you achieve this?
(a) Forma	a com the
(c) Programs	
(c) Procedures (d) Commands	
	Scanned with CamScanner

dialog

box

Which function will you use to enter 57. Text (a) Choose Vertical on current time in a worksheet cell? Cells Format in alignment = today () (a) dialog box $(b) \checkmark = now()$ in (b)√ Choose 90 Degrees = time() (c) Orientation of Format Cells = current Time () (d) dialog box Special category of number tab in 58. Choose Distributed from the (c) Format Cells dialog box can be used Vertical drop down list of to apply formats like: Format Cells dialog box Zip Code (a) Choose Center Across Selection Phone Number (d) (b) from Horizontal combo box in (c)√ (a) & (b) Format Cells dialog box (d) None of above Can you set 0.5 inch left indentation Merge cells option can be applied 52. 59. for a cell in Excel? from: Excel does not have indentation (a) Cells (a)√ Format feature Alignment Tab You can specify indentation (b) Formatting toolbar (b) only if you turn the rulers on (a) & (b) (c) (c)√ Indentation can be set from None of above (d) Format Cells dialog box Pre-made sheet formats like Simple. The indentation can be specified 60. (d) Classic According, Colorful et applied only when printing' The extension of MS Excel file is: from: 53. From Fromat >> Cells (a) xlxs (b) (a)√ xlsx (b) ✓ From Format >> Autoformat exls (d) (c) xlss From Table >> Autoformat Formatting a cell in Currency, you can (c) 54. (d) All of above specify: Which of the following format you 61. Decimal Places (a) decide to apply or not in Currency Symbol can (b) AutoFormat dialog box? (c)√ (a) & (b) Number format (d) None of above (a) Formatting a cell in number format (b) Border format 55. (c) Font format you can't set: $(d) \checkmark$ All of above Decimal Places (a) How can you remove borders applied 62. Use 1000 separator (b) in cells? Negative numbers (c) Choose None on Border tab of (d) ✓ Currency Symbol (a) Format cells What is entered by the function = 56. Open the list on Border tool today() (b) Formatting toolbar then choose (a) \checkmark The date value for the day first tool (no border) according to system clock (b) The time value according to (c) \checkmark (a) & (b) (d) None of above system clock Where can you set the shedding color (c) Today's date as Text format 63. for a range of cells in Excel? (d) All of above We provide Preparation Material 4 All Tests, visit our site, and download in pdf

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64.

65.

66.

- Choose required color form (a)Patterns tab of Format Cells dialog box (b) Choose required color on Fill Color tool in Formatting toolbar Choose required color on Fill (c) Color tool in Drawing tool bar $(d) \checkmark$ All of above You can set Page Border in Excel from: From Border tab in Format (a) Cells dialog box From Border tool in Formatting (b) toolbar (c) From Line Style tool in Drawing toolbar (d)√ You cannot set page border in Excel When all the numbers between 0 and 100 in a range should be displayed in 'Red Color', apply: (a) Use = if 0 function to format the required numbers red (b) ✓ Apply Conditional Formatting command on Format menu Select the cells that contain (c) number between 0 and 100 then click Red color on Text Color tool All of above (d) You can check the conditions against applying conditional when formatting: (a) Cell value (b) Formula
- (c)√ (a) & (b)
- (d) None of above
- 67. Which of the following is not true regarding Conditional Formatting?
 - You can add more than one (a) condition to check
 - (b)√ You can set condition to look for Bold and apply Italics on them

- You can apply Font, border and (c) pattern formats that meets the specified conditions
- You can delete any condition (d) from Conditional Formatting dialog box if it is not required
- Which of the following is invalid 68. statement?
 - (a) Sheet tabs can be colored
 - Some picture can be, applied as (b)a background of a sheet
 - You can set the column width (c) automatically fit the amount of text
 - (d) \checkmark The width of a row and be specified manually fit or automatically
- 69. Which of the following is not an option in the spelling dialog box?
 - (a)√ Edit (b) Ignore
 - (c) Ignore all (d) Change
- 70. You can quickly change the appearance of your work by choosing AutoFormat from the menu: Edit View (a) (b)
 - (c)√ Format (d) Tools
- To protect a worksheet, you can 71. choose protection and the Protect Sheet from the menu:
 - (b) Format Edit (a)
 - (c)√ Tools (d) Data
- You can open the Highlight Changes 72. dialog box by choosing Track Changes from the menu.
 - Insert Edit (b) (a)
 - (d)√ Tools Format (c)
- Which of the following is not a 73. worksheet design criterion?
 - Efficiency (a)
 - Auditing (b)
 - (c)√ Description
 - Clarity (d)
- To copy cell contents using drag and 74. drop. press the:
 - End key (a)
 - Shift key (h)

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(c) Esc key

(d) ✓ None of above

- If you press the cell accepts your 75. typing as its contents:
 - (a)√ Enter
 - Ctrl + Enter (b)
 - (d) Insert TAB (c)
- The autofill feature: 76.
 - (a)√ Extends a sequential series of data
 - Automatically adds a range of (b) cell values
 - a 'boarder around Applies (c) selected cells
 - None of above (d)
- What is the keyboard shortcut (button 77. or buttons to be pressed for creating a chart from the selected cells?
 - F5 F3 (b) (a)
 - (d)√ F11 (c) F7
- Which of the following is not a type 78. of chart?
 - Pie (b) Column (a)
 - (d)√ Figure (c) Line
- What 'Pivot Table toolbar' button 79. updates the data in a Pivot Table or Pivot Chart report if the source data chas-changed:
 - Format Report (a)
 - Pivot Table (b)
 - (c)√ Refresh Data
 - Show Detail (d)
- What is an expression that tells how 80. the numbers in a determined set of cells are to be calculated?
 - Field (a)√ Formula (b)
 - (d) (c) Data Query
- "tr 1, tr 2, tr 3" is an example of a: 81.
 - Formula (a) (b) Function
 - (c)√ Series (d) Syntax
- You can edit existing, Excel data by 82. pressing the:
 - (a) F1 key (b) \checkmark F2 key
 - (c) F3 key (d) F4 key
- The cell reference for a range of cells 83. that starts in cell B 1 and goes over to column G and down to row 10 is
 - (a) G1-G10 B1.G10 (b)
 - (c) B1:G10 (d)√ B1:G10

- A user wishes to remove a spreadsheet 84. from a workbook. Which is the correct sequence of events that will do this?
 - Go to File-Save As Save As (a) Type - Excel worksheet
 - (b) ✓ Right click on the spreadsheet tab and select DELETE
 - Right click on the spreadsheet (c) and select Insert - Entire Column
 - None of above (d)
- What feature enables you to adjust or 85. back solve the value in a cell to reach a desired outcome in a formula?
 - Goal Seek (a)
 - Scenario Summary report (b)
 - Forecasting (c)
 - (d)√ Trend line
- What term describes a background 86. that appears as a grainy, non smooth surface?
 - Pattern (b) (a)√ Gradient
 - Texture (d) Solid (c)
- 87. Excel is a:
 - Graphic program (a)
 - Word processor (b)
 - (c) ✓ Spreadsheet
 - (d) None of these
- To create an interactive Pivot Table 88. for the web, you use a Microsoft Office Web component called:
 - HTML (a)
 - Pivot Table Field List (b)
 - **Pivot Table List** (c)
 - (d)√ Pivot Table Report
- What function displays row data in a 89. column or column data in a row?
 - Index Hyperlink (b) (a)
 - Rows (c)√ Transpose (d) When you insert an Excel file into a
- 90. Word document, the data are:
 - Hyperlinked
 - (a) (b) ✓ Placed in a word table

 - Linked (c)
- Except for the function, a formula with a logical function, a low the 91. word "TRUE" or "FALSE" as a result

ter - MCOs

Con	nputer – MCQs
Cer	$(a) \checkmark IF$ (b) AND
	(a) OR (d) NOT
0	Macros are "run" or executed from the
92.	menu:
	(a) Insert (b) Format
	(c)√ Tools (d) Data
02	the end of the end 1'1
93.	box byte choosing 'Consolidate' from
	the menu.
	(a) Insert (b) Format
	(c) Tools $(d) \checkmark$ Data
94.	
74.	Excel is known as:
	(a) Presentation
	(b) Picture
	(c) Chart (d) None of these
95	Which types of charts can excel
,	produce?
	(a) Line graphs and pie charts only
	(b) Only line graphs
	(c) \checkmark Bar charts, line graphs and pie
	charts charts, fine graphs and pie
	(d) Bar charts and line graphs only
96.	By which way data organized in a
	spreadsheet?
	(a) Lines and spaces
	(b) Layers and planes
	$(c) \checkmark$ Rows and columns
	(d) Height and width
97.	What does the VLOOKUP function
	do?
	(a) Looks up text that contain 'y'
	 (a) Looks up text that contain 'v' (b) Checks whether text is the same
	in one cell as in the next
	(c) \checkmark Finds related records
	(d) All of above
98.	Gridlines:
	by be turned off for display
	(b) May be turned on for printing
	y be lurned on or off for
	(a) printing
	The be turned off for display
00	
99.	$(d) \checkmark$ All of the above You can print and
	- Vall Drint - 1

tou can print only an embedded chart. by;

(a) Moving the chart to a chart sheet before you print (b)

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- Formatting the chart before you print
- (c) Selecting the chart before you print
- (d) \checkmark (a) and (c)
- 100. Which of the following is a correct order of precedence in a formula calculation?
 - Multiplication (a) and division. exponential positive and negative value
 - (b) Multiplication and division ... positive and negative values, addition and subtraction
 - (c) Addition and subtraction, positive and negative values, exponentiation
 - (d) ✓ None of above
- 101. A function inside another function is called a function:

(a)√ Nested (b) Round (c)

Sum (d) Text

- 102. How should you print a selected area of a worksheet, if you'll want to print a different area next time?
 - On the file menu, point to print (a) area, and then click set print area
 - (b)√ On the file menu, click print. and then click selection under print what
 - On the view menu, click custom (c) views, then click add
 - All of above (d)
- 103. Youar German supplier still invoices for parts in deutsche marks. How can you have Excel convert those sums to Euros?
 - On the Insert menu, click (a) Symbol and from the currency symbols subset, select the Euro sign.

- (b) ✓ On the tools menu, click Add-Ins. and select the Euro Currency Tools check box
- Apply a selected background (c) color
- (d) All of above
- 104. Which function calculates your monthly mortgage payment?
 - (a) ✓ PMT (payments)
 - (b) NPER (number of periods)
 - PV (present value) (c)
 - (d) All of above
- 105. If you are working in English (US), Chinese or Japanese, Excel 2002 can speak data as you enter it, to help you verify accuracy. How do you activate this feature?
 - (a) \checkmark Point to speech on the tools menu, and then click show text to speech toolbar
 - Click validation on the data (b) menu
 - Point to speech on the tools (c) menu, and then click speech recognition
 - (d) All of above
- 106. Which of the following methods cannot be used to enter data in a cell?
 - (a) Pressing an arrow key
 - Pressing the tab key (b)
 - (c) \checkmark Pressing the Esc key
 - Clicking the enter button to the (d) formula bar
- 107. Which of .the following will not set text in selected cells to italics?
 - Pressing Ctrl + I on the (a) keyboard
 - (b) ✓ Using the Tools Wizard Web Form menu item
 - (c) Using the Format - Cells - Font menu item
 - None of the above (d)
- 108. Which of the following methods cannot be used to edit the content of
 - (a) ✓ Pressing the Alt key

- Clicking the formula bar (b)
- Pressing F2 (c)
- Double clicking the cell (d)
- 109. You can activate a cell by:
 - Pressing the Tab key (a)
 - Clicking the cell (b)
 - Pressing an arrow key (c)
 - (d)√ All of above
- 110. Which of the following setup options cannot be set in the page setup dialog box?
 - (a) ✓ Printer selection
 - Vertical or horizontal placement (b)
 - Orientation (c)
 - Row and column titles (d)
- What term refers to a specific set of 111. values saved with the workbook?
 - (b) ✓ Scenario Range (a)
 - Trend line (c)
 - (d) What-if analysis
- 112. Got functions? No? You need the insert function dialog box. How do you get it?
 - Right click a cell and then click (a) insert
 - (b)√ Click the insert menu and then click function
 - Type = in a cell (c)
 - All of the above (d)
- 113. Which of the following describes how to select all the cells in a single column?
 - (a) Right click on column and select Pick from list
 - (b) Use data text to columns menu item
 - (c)√ Left click on the gray column title button
- (d) Pressing Ctrl + A on the keyboard
- 114. When you use the fill effects in the format data series dialog box. you cannot:
 - (a) ✓ Rotate text on the chart
- (b) Select a fore ground color
 - (c) Select a pattern Scanned with CamScanner

Com

Select a background color (d)

- 115. Paper spreadsheets can have all the same advantages as an electronic spreadsheet except which of the following?
 - Rows and columns (a)
 - (b) Headings
 - (c)√ Speed
 - (d) None of these
- 116. Which of the following. is not a basic step in creating a worksheet?
 - Save the workbook (a)
 - Modify the worksheet (b)
 - Enter text and data (c)
 - Copy the worksheet (d)
- 117. What's a quick way to extend these numbers to a longer sequence, for instance 1 through 20?
 - (a)√ Select both cell, and then drag the fill handle over the range you want, for instance 18 more rows
 - Select the range you want, (b) include both cells, point to fill on the Edit menu, and then click down
 - (c) Copy the second cell, click in the cell below it, en the standard tool bar click the down arrow on the Paste button, and then click Paste Special
- (d) All of above
- 118. To insert three columns between columns D and E you would:
 - (a) Select column D
 - (b)✓ Select column E
 - (c) Select columns E, F and G
 - (d) Select columns D, E, and F
- 119. To center worksheet titles across a range of cell, you must:
 - (a) ✓ Select the cells containing the title text and use the fill handle to center the text across a range of cells (b)
 - Widen the columns

- Select the cells containing the (c) title text and use the fill handle to center the text across a range (d)
- Widen the column
- 120. When integrating Ms-Word Excel, Word is usually the: and (a)
 - Server (b) Source
 - (c)√ Client
- (d) None of these
- 121. Charts tips can:
 - Show the formatting of a data (a) label
 - Show the name of a data series (b)
 - Show the value of data point (c)
 - (d) ✓ (b) and ((c))
- 122. The Name box:
 - Shows the location of the (a) previously active cell
 - (b)√ Appears to the left of the formula bar
 - Appears below the status bar (c)
 - Appears below the menu bar (d)
- 123. How do you change column width to fit the contents?
 - Single-Click the boundary to the (a) left to the column heading
 - (b) ✓ Double click the boundary to the right of the column heading
 - Press Alt and single click (c) anywhere in the column
 - All of above (d)
- work with large 124. When you worksheets, you may need to:
 - Size the worksheet to fit on the (a) specific number of pages:
 - Add and remove page breaks (b)
 - Specify only certain print areas (c)
 - (d)√ All of above
- 125. Hyperlinks cannot be:
 - Special shapes like stars and (a) banners
 - Drawing objects like rectangles (b) ovals
 - Pictures
 - (d) ✓ All can be hyperlinks
 - Scanned with CamScanner

MCQs

- 126. You can use the horizontal and vertical scroll bars to:
 - (a) Split a worksheet into two panes
 - (b) ✓ View different rows and columns
 - (c) Edit the contents of a cell
 - (d) View different worksheets
- 127. What do we call a computer program that organizes data in rows and columns of cells? You might use this type of program to keep a record of the money you earned moving, lawns over the summer:
 - (a) ✓ Spreadsheet program
 - (b) Database program
 - (c) Word processor program
 - (d) Desktop publisher program
- 128. You can add an image to a template by clicking the 'Insert Picture' from File button on the.... Toolbar:
 - (a) Standard (b) Formatting
 - (c) Drawing (d)√ Picture
- 129. To drag a selected range of data to another worksheet in the same workbook, use the:
 - (a) Tab key (b) Alt key
 - (c) Shift key (d) ✓ Ctrl key
- 130. When creating a vertical page break:
 - (a) The active cell must be A1
 - (b) The active cell can be anywhere in the worksheet
 - (c) \checkmark The active cell must be in row 1
 - (d) The active cell must be in column A
- 131. To activate the previous cell in a preselected range, press:
 - (a) The Alt key
 - (b) The Tab key
 - (c) The Enter key.
 - (d) ✓ None of above
- 132. When the formula bar is activated, you can see:
 - (a) The Edit Formula button
 - (b) The Cancel button
 - (c) The Enter button (d)
 - (d) ✓ All of above

- 133. In a worksheet you can select:
 - (a) The entire worksheet
 - (b) Rows
 - (c) Columns
 - $(d)\sqrt{(a)}, (b), and (c)$
- 134. When you print, preview a worksheet
 - (a) The entire worksheet is displayed
 - (b) The selected range is displayed
 - (c) The active portion of the worksheet is displayed
 - (d) \checkmark (a), (b), and (c)
- 135. You can, group noncontiguous worksheets with:
 - (a) The group, button on the standard tool bar
 - (b) The shift key and the mouse
 - (c)√ The ctrl key and mouse
 - (d) The alt+enter key
- 136. Weight refers to:
 - (a) \checkmark The print density of characters
 - (b) The height of the printed character
 - (c) Upright or slanted shape
 - (d) The design and appearance of characters
- 137. When you link data maintained in Excel workbook to a Word document:
 - (a) The Word document cannot be edited
 - (b) ✓ The Word document contains a reference to the original source application
 - (c) The word document must contain a hyperlink
 - (d) The word document contains a copy of the actual data
- 138. When you see a cell with a red triangle in the top right corner, what does this signify?
 - (a) There is an error in the cell
 - (b) ✓ There is ct comment associated with the cell
 - (c) The font color for text in the cell is red

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Computer A formula cannot be entered (d) 463 (a) into the cell View (b) 139. To hold row and column titles in Insert Format (c) (d)√ Tools 144. You can open the Sort dialog box by places to that they do not scroll when choosing Sort from the menu: you scroll a worksheet, click the: Unfreeze panes command on View (a) (b) Format (c) Tools the window menu (d)√ Data 145. When working in the page break (b)√ Freeze panes command on the preview you can: window menur View exactly where each page Hold titles command on the edit (a) (c) break occurs menu Split command on the window (b) Add or remove page breaks (d) Change the print area (c) menu (d) ✓ All of above 140. Which of these is a quick way to copy 146. A data map is helpful: formatting from a selected cell to two other cells on the same worksheet? When you have too much data (a) Use Ctrl to select all three cells. to chart (a) then click the paste button on (b)√ To show a geographic distribution of data the standard toolbar (b) Copy the selected cell, then To compare data points (c) select the other two cells, click To show changes in data over (d) style on the Format menu: then time 147. Rounding errors can occur: click Modify (a)√ When you use multiplication, (c)√ Click format painter on the division or exponentiation in a Formatting tool bar twice then click in each cell you want to formula When you use addition and. copy the formatting to (b) subtraction in a formula All of above (d) 41. To edit data in an embedded Excel Because Excel uses hidden (c) worksheet object in a Word document: decimal places in computation (a)√ Use the Excel menu bar and When you show the results of (d) formulas with different decimal toolbars inside the word application places than the calculated (b) Edit the hyperlink results (c) 148. You can copy data or formulas: Edit the data in a Excel source application With the copy paste and cut (a) (d) Use the Word menu bar and commands on the edit menu ⁴². Status indicators are located on the: toolbars (b) With commands on a shortcut menu Vertical scroll bar With buttons on the standard (c) Horizontal scroll bar (c)√ Formula bar toolbar (d)√ All of the above ⁴³ Y_{ou} Formatting toolbar dialocation open the scenario Manager dialog box by choosing scenarios from

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POWER POINT

Features of PowerPoint

Introduction: Some important features of PowerPoint are as follows:

1. Formatting: PowerPoint has a wide range of formatting facilities. The user can change the color, background color, size and style of the text.

2. Slide Layouts - Slide Types: There are several types of slide layouts in PowerPoint. Different slide layouts can be used depending on the type of presentation being created.

3. Slid & Themes: PowerPoint comes with a selection of predefined themes. The user can apply these themes to the slides with one click of the mouse.

4. Quick Styles: Quick styles are used to preview a number of styles before applying them to the slide. Quick styles also help the user to create professional tables and charts.

Template: Professional 5. collection of includes а PowerPoint professionally designed templates. The user can use and modify the templates according to the requirements.

6. Live Preview: Live Preview feature is used to temporarily preview the effect of an action before applying it. It can be used to see how the text will appear when a certain formatting is applied such as font style, sizes and colors etc.

7. SmartArt Graphics: SmartArt is used to create professional diagrams quickly and easily.

8. Presenter View: Presenter view feature is used to run the presentation from one monitor and the audience views it on a second monitor.

9. Audio and Video: PowerPoint provides the facility to add sounds and videos in the presentation. It enhances the effects of the presentation.

10. Shapes: PowerPoint allows the user to draw different geometrical shapes arrows flowchart symbols, stars and banners on the slides.

11. Clip Art gallery: PowerPoint includes 9 clip art galleries that contain images, photos, video clips and audio clips for the presentations.

12. Effects: The user can add differen effects to different objects such as shadow glow soft edge, 3-D rotation etc.

13. Spelling and Grammar: Spelling and Grammar feature is used to detect and correct the spelling and grammatical mistakes in the presentation.

14. Animation: PowerPoint provides the facility to animate the contents of presentations. Different types of movements can be applied to different components of the presentation. It makes the presentation more attractive.

15. Slide Transition: PowerPoint can be used to apply special effects to the transition between slides. Slide transitions are the visual movements as one slide changes to another. By default one slide simply replaces the previous screen.

16. Slide Timing: Slide timing is used to set the timing of the slides. The presentation automatically displays the next slide after a preset delay. The user can rehearse the presentation to know the time required to complete the presentation.

Speaker Notes: PowerPoint 17. provides the facility to add speaker notes to a presentation. The notes can be used 10 points important remember presentation or to give to the audience.

18. Printing: PowerPoint provides printing facility. The user can print slides to get a hard copy. Printing can be of whole presentation or of any range of pages.

SHORT QUESTIONS

Ans: Multimedia is a combination of different media elements'. These

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computer are used to present	
elements are used to present	Dross
information mat is cuty to understand.	presentation. Templates are easy to use. They also save time used
unformation that the elements of multimedia. List different elements of multimedia are Ans: Different elements, sounds, video and	Q. Write the tree
I PERCING OF MULTINULUI 9ro	U. Write is the presentation used in
	Q. Write the types of templates.
animation.	install i types of the tory
a toy!	Ans: Different types of templates. installed templates, my templates and office online templates.
Text is a combination of letters and	
	Silierentiate both
with a keyboard.	my templates.
Define animation.	Ans: The installed templates are provided with PowerPoint. The man for the second second
the Animation is a technique used to	with PowerPoint. The my templates are created and saved but
create movement in objects. Cartoon	Q. Define theme
programs and animated movies are	
examples of animation.	Ans: A theme is b quick was
Q. What is multimedia presentation?	
Ans: Multimedia presentation is the display	effects to a presentation. The user can
of information using different media	For a new presentation waited
elements such as text, graphics, sound,	desired theme. The selected theme eap
video and animation. These elements	also be changed as required.
halp presenting in f	Q. Define background.
help presenting information that is	Ans: The background is the area behind the
easy to understand.	text and graphics. The user can apply.
Q. What do you know about Microsoft	Different background fill effects on
PowerPoint?	slides.
Ans: Microsoft PowerPoint is an	
application software used to create	Q. Differentiate between gradient and texture fill.
attractive multimedia presentations. It	Ans: Gradient fill is used to fill the slide
provides many facilities to create	has background with different at
clicclive and interesting presentations	background with different colors and
	shades, Texture fill is the feel of a
Ans: Slide is a single page of	surface. MS PowerPoint provides
Ans: Slide is a single page of presentation created in PowerPoint It	different textures to set as
	background.
information in the form of media	Q. What is slide layout?
	Ans: The arrangement of different elements
sound etc. A presentation may consist	on slide is known as layout. A slide
	layout is a predefined design of a slide
What is slide show?	available in MS PowerPoint.
in show is the diamle of the line	n Cleasholder
Ans: Slide show? in a presentation one by one. The presentation in slide is shown in full	A share the dotted polycis in share
presentation one by one. The screen mode. It shows all graphics	
screen mode is shown in full	layout is called placeholder text on a used to insert title and body text on a
	used to insert title and body to show other slide. It can also be used to show other tables
Q transition animated effects and	slide. It can also be used to harts, tables

layout is called place used to insert title and body text on a slide. It can also be used to show other objects such as graphics charts, tables

and pictures etc. Define custom animation.

Define template. Ans: Define template. A template is a file that contains pre-defined a creating a

effects

and.

Q.

transition effects etc.

Q.

animated

Ans: Custom animation is the list of animated effects that can be applied to different objects on slide during slide show.

What do mean by slide transition? O.

- Ans: Slide transition is the movement from one slide to another in slide show. The user can add sounds, select the speed and style to the transition effects:
- Q. Differentiate between custom animation and slide transition.
- Ans: Custom animation is the list of animated effects that can be applied to different objects on slide during Slide show Slide transition is the movement from none slide to another in slide show.
- Q. Differentiate between video clip and animation.

Ans: A series of pictures that are displayed one after another with sound is called video. A video clip is a short segment of a video. Animation is a technique used to create movement in objects.

Differentiate between graphics and Q. animation.

Ans: Animation is a technique used to create movement in objects. Graphics is the representation of non-text information such as drawings. photographs.

MCQs.

- PowerPoint is: 1.
 - (a) ✓ Presentation Graphics
 - Slide show (b)
 - Publishing (d) Imaging (c)
- A single page of presentation in 2. PowerPoint is called:
 - (a)√ Slide (b) Text
 - (c) Slide show (d) Media
 - PowerPoint presentation generallyconsists of many:
 - (a) Sheets (b) Documents (c)√ Slides (d) Scenes What is the basic unit of a PowerPoint presentation?

Window (c) Picture None of these (d) Which of the following can be printed 5.

(b)

- support of a PowerPoint presentation? (a) Speaker's notes
 - (b) An outline

(a) ✓ Slide

- Audience handouts (c)
- $(d)\checkmark$ All of the above
- The movement of an object is created 6. by using:
 - (a) \checkmark Animation (b) Motion
 - Execution (d) Presentation (c)
- The minimum number of slides a 7. presentation must have:
 - Two (a) (b) Six
 - (d)√ One Ten (c)
- The predefined slide formats in 8. PowerPoint are called:
 - (a) ✓ Slide Layout
 - Speaker Notes (b)
 - Audience handouts (c)
 - Outline (d)
- 9. All slide layouts contains boxes with dotted borders called:
 - Titleholder (a)
 - (b) Textholder
 - (c) Boxholder
 - (d)√ Placeholder
- 10. Placeholders are used to:
 - (a) ✓ Enter text or objects on a slide
 - Determine the cursor location (b)
 - Temporarily hold an object (c)
 - (d) Reorder slides
- The Normal view is divided into three 11. sections that are referred to as:
 - (b) Areas (a)√ Panes
 - Boxes (d)(c) Region
- The arrangement of the objects on the 12. slide is known as Slide:
 - Show (b) (a) ✓ Layout Transition (d) (c) Design
- Which of the following is not a view see your 13. which you can in presentation? Slide Sorter. (a) Normal (b) Slide Show
 - (d) (c)√ Outline

-			
14.		21	467
	included in a PowerPoint	21.	The most common form in the l
	presentation?		computer is found to 1
	(a) \checkmark Clip art \sim (b) Text		
	(c) WordArt (d) All of these	5	(a) Super (b) Mainframe
5.	Which PowerPoint features changes	22.	(c) Personal (d) Notebook
	the way slides move on and off the	22.	Computers are:
	screen?		(a) Accurate (b) Consistent
	(a) Transitions	23.	(c) Reliable (d) \checkmark All of these
	(b) Builds	45.	A computer's main function is to:
	(c) Slide Navigator		(a) Convert information into
	(d) None of these		storage
16.	Which is true about transition and		(b) Convert data into information
	build effects?		(c) Display data
	(a) ✓ Every slide must have same	24.	(d) Create data from information
	transition effect	24.	First-generation computers were
	(b) Every bullet must have same	8	characterized by the:
	build effect		(a) Microprocessor
	(c) (a) and (b)		(b) Transistor
	(d) Neither (a) nor (b)		(c) Integrated circuit
17.	In which tab a user can find slide	25.	(d) ✓ Vacuum tube
	Transition?	25.	Which of the following was used in
	(a) Home tab	, ×.	(a) Integrated circuits
	(b) Animation tab		 (a) Integrated circuits (b) ✓ Transistors
	(c) Review tab		(c) Vacuum tubes
	(d)✓ Design tab	65	(d) Microprocessors
18.	Which of the following can be	26.	Which of the following was used in
	changed after, creating a slide?	20.	third-generation computers?
	(a) Layout and transition effect		(a) Microprocessor
1			(b) Transistor
	1 1		(c) \checkmark Integrated circuit
		. '	
0	(d) Neither (a) nor (b)	27	
	The list of animated effects that a user	27.	Which of the following was used in
	can apply to selected object on the	· · .	fourth-generation computers?
	slide is called:	1 .	(a) ✓ Microprocessor
	(a) ✓ Custom Animation	1.11	(b) Transistor
	(⁰⁾ Smooth animation	it was	(c) Integrated circuit
	(c) Long Animation		(d) Vacuum tube
	(a) Lavout	28.	The computer that manage
U. 1	Which PowerPoint feature is screen?	1	beginning of commercial computer
1	(a) Slide Show		age was:
2.1	(b) Run	1 .	(a) ENIVAC (b) UNIVAC
(() DECVAC (d) COMPANY
	and presentation	29.	Memory in first generation computer
	(d) None of these		was implemented using:
		1 1	(a) Vacuum tubes

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(b) Transistors	38. The two onlary digits are frequence
(c) ✓ Magnetic core	
(d) None of these	(a) ✓ Bit (b) Byte
30. Transistors had all the following	(c) Transistors (d) None of these
advantage over vacuum tubes:	39. The base of deemial number system
(a) Smaller size	15.
(b) Greater speed	(a) \checkmark 10 (b) 2
(c) Less heat generation	(c) 8 (d) 16
(d) \checkmark All of the above	40. The base of binary number system 15:
31. Desktop and personal computers are	(a) 16 (b) \checkmark 2
also called:	(c) 8 (d) 10
(a) Mainframe computers	41. The base of octal number system is:
(b) Supercomputers	(a) 10 (b) 2
(c) ✓ Microcomputers	$(c)\sqrt{8}$ (d) 16
(d) (b) and (c)	42. The base of hexadecimal number
32. Which is not a computer	system is:
classification?	$(a) \checkmark 16$ (b) 2
(a) Mainframe computer	(c) 8 (d) 10
(b) Minicomputer	43. The number of digits in octal system
(c) Laptop computer	is:
(d) ✓ Maxicomputer	(a) \checkmark 8 (b) 7
33. A collection of raw facts and figure is	(c) 10 (d) 16
called:	44. The number of digits in decimal
(a) Data (b) Information	system is:
(c) \checkmark Processing (d) Output	(a) 8 (b) 7
34. The data after the processing is called:	$(c) \checkmark 10$ (d) 16
(a) Output data	45. The number of digits in Hexadecimal
(b) ✓ Information	system is:
(c) Sample data	(a) 15 (b) 17
(d) None of these	(c)√ 16 (d) 8
35. Which of the following is data type:	46. The number of bits in a nibble is:
(a) Numeric (b) Alphabetic	(a) 16 (b) 5
(c) Alphanumeric	
(d) ✓ All of-these	(c) \checkmark 4 (d) 8 47. The digit Fin Hexadecimal system is
6. Which of the following data type is	equivalent to in decimal
used to represent names of students?	
(a) Numeric data	system:
(b) ✓ Alphabetic data	(a) 16 (b) \checkmark 15
(c) Alphanumeric data	(c) 17 (d) 8
(a) (a) and (b)	48. In hexadecimal number system, A is
7. Numbers stored and transmitted inside	equal to decimal number:
a computer in:	(a) ✓ 10 (b) 11
(a) ✓ Binary form	(a) 17 (b) 10
(b) Decimal form	49. In hexadecimal number system, B is
	equal to decimal number:
(c) Alphanumeric form(d) None of these	
in on these	
	(c) 17 (d) 8
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In hexadecimal number system, C is 50. equal to decimal number: 10 (b) 11 (a) (c)√ 12 (d) 8 What is the decimal value of 232 51. 2 (b) 4 (a) (d)√ 8 6 (c) What is the decimal value of 2⁻¹ is 52. equal to: (a)√ 0.5 (b) 0.25 0.05 (c) (d) 0.1 The decimal number 18 is equal to the 53. binary number: (a) 11110 (b) 10001 (c)√ 10010 (d) 1111000 The difference of 111 - 001 equals: 54. (a) 100 (b) 111 (c) 001 (d)√ 110 Binary multiplication 1 *0= 55. (a) 1 (b)√ 0 (c) 10 (d) 11 The 1's complement of 10011101 is: 56 (a) ✓ 0.01100010 (b) 10011110 (c) 01100001 (d) 01100011 57. MSB stands for (a) Middle sum byte Maximum single bit (b) (c) Minimum single bit (d) ✓ Most significant bit 58. If you have a Power Points how you created and want to send using email to another teacher. you can add the show to your email message as a (an): (a) Inclusion (b)√ Attachment (c) Reply (d) Forward 59 In order to edit a chart, you can: (a) Triple click the chart object (b) Click and drag the chart object (c) ✓ Double click the chart object (d) Click the chart object 60 To exit the Power Point: (a) Click the application minimize button (b) Click the document close button

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	(c)√	Double click the applications
		control menu icon
	(d)	
		control menu icon
61.	To pr	eview a motion path effect using
	the c	ustom animation task pane. you
	shoul	d:
	(a)√	Click the play button
	(b)	Click the show effect button
	(c)	Double click. the motion path
	(d)	All of above
62.		can create a new presentation by
		leting all of the following
	excer	ot:
		Clicking the new button on the
		standard toolbar
	(b)	Clicking file, new
	(c)√	Clicking file open
	(d)	Pressing ctrl + N
63.	You	can embed a MS-Organization
	Char	t in a slide by:
		Clicking the object command on
		the edit menu
	(b)√	Clicking the object command on
		the edit menu
	(c)	Clicking the insert new slide
		button the standard tool bar,
		then – double click. The
		organization chart button on the
		formatting toolbar
	(d)	Clicking the MS-Organization
		Chart button on the standard
		toolbar
64.	To s	select one hyperlink after another
	duri	ng a slide presentation, what do
	you	press?
and far	(a)√	Tab (b) Ctrl + K
	(c)	Ctrl + h (d) All above
65.	Spe	cial effects used to introduce slides
	in a	presentation are called:
	(a)	Effects
	(b)	Custom animations
	(c)v	Transitions
		Present animations
66.	You	

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organization chart object by:

 (a) Clicking edit object (b) Double clicking the organization chart object (c) Right clicking the chart object, then clicking edit MS Organization Chart object (d) ✓ (b) and (c) 	with the mouse for a manual animation effect (c) ✓ Select the slide in slide sorter view, right click and choose preset animations from the shortcut menu
 (b) Double clicking the organization chart object (c) Right clicking the chart object, then clicking edit MS Organization Chart object (d) ✓ (b) and (c) 	(c) ✓ Select the slide in slide sorter view, right click and choose preset animations from the shortcut menu
 (c) Right clicking the chart object (c) Right clicking the chart object, then clicking edit MS Organization Chart object (d)√ (b) and (c) 	preset animations from the
 (c) Right clicking the chart object, then clicking edit MS Organization Chart object (d)√ (b) and (c) 	preset animations from the
then clicking edit MS Organization Chart object (d) \checkmark (b) and (c)	shortcut menu
Organization Chart object $(d)\sqrt{(b)}$ and (c)	Shortout menu
$(d)\sqrt{b}$ and (c)	D D I I
	(d) Power Point does not have an
67. What is the term used when you press	animation leature
and hold the left mouse key and more	72. Which of the following is not a $w_{ay_{10}}$
the mouse around the slide?	cut ext?
(a) Highlighting	(a) ✓ Select the text and press the
(b) ✓ Dragging	delete button
(c) Selecting (d) Moving	(b) Select the text and select Edit.
68. Which of the following toolbars	Cut from the menu
provide different options in various	(c) Select the text and click the Cut
master views?	button on the toolbar
(a) ✓ Common tasks toolbar	(d) Select the text and press Ctrl -
(b) Drawing toolbar	73. Which types of fonts are best suitable
(c) Formatting toolbar	for titles and headlines:
(d) Standard toolbar	(a) Serif fonts
69. How can you create a uniform	(b) ✓ Sans serif fonts
appearance by adding a background	(c) Text fonts
image to all slides?	(d) Picture fonts
(a) Create a template	74. Which type of <i>font</i> is best suitable for
(b) \checkmark Edit the slide master	large amount of text?
(c) Use the autocorrect wizard	(a) ✓ Serif fonts
(d) All of the above	(b) Sans serif fonts
70. How do you create speaker note pages	(c) Text fonts
that show the slides, related notes, and	(d) Picture fonts
your company logo on each page?	75. To give a Power Point presentation to
(a) ✓ Edit the notes master and add	a large audience, you:
your company logy	(a) Set up vour computer in a large
(b) Edit the slide master and insert	F Jour computer m
your company logo and notes	auditorium, and click large.
pane	auditorium, OK
(c) Edit the handout master to	(b) Click the slide you wish the
include your company logo and	audience to see in normal view.
Silde her page tit	then click the next slide, and so
auditional note space	on
(a) All Of the phone	(c) ✓ Choose either view. slide sho ^w
one way to make a p	or slide show, view show
	(d) Slick slide show, OK
Select the slide in and	76. Which of the following can you use to
(b) Click the Power D	add times to the slides in a
	times to the shues
(b) Click the Power Point window and move it around	presentation:
and move it around vigorously	(a) Slice Show menu
	(b) ✓ Rehearse timing button

- (c) Slide transition button
- (d) All of the above
- 77. Which of the following is not one of Power Point's views?
 - (a) Slide show view
 - (b) Slide view
 - (c)√ Presentation view
 - (d) Outline view
- 78. Which PowerPoint view works best for adding slide transitions?
 - (a) Slide show view
 - (b)√ Slide sorter view
 - (c) Slide view
 - (d) Notes view
- 79. Which of the following views is the best view to use when setting transition effects for all slides in a presentation?
 - (a) ✓ Slide sorter view
 - (b) Notes page view
 - (c) Slide view
 - (d) Outline view
- 80. Which option can be used to set custom timings for slides in a presentation?
 - (a) Slider Timings
 - (b) Slider Timer
 - (c)√ Rehearsal
 - (d) Slide Show Setup
- 81. Which of the following will not advance the slides in a slide show view?

(a) ✓ The esc key

- (b) The space bar
- (c) The enter key
- (d) The mouse button
- To import text from a word document that uses headings into a PowerPoint presentation:
 - (a) This cannot be done in Power Point
 - (b) ✓ Click Insert, Slides from Outline
 - (c) Click Import, Word Document Headings
 (d) Click Eiler
 - (d) Click File, New, Presentation from Word Headings

- 83. Format painter:
 - (a) To paint pretty pictures on your slides
 - (b) ✓ To copy formatting from one object or piece of text and then apply it elsewhere
 - (c) To change the background color of your slides
 - (d) To paint pretty natures on background of slides
- 84. Slide show options available to the presenter include all, of the following except:
 - (a) ✓ Transitions command
 - (b) Speaker notes command
 - (c) Meeting minder command
 - (d) Navigation commands
- 85. Which of the following is an example for automatic text formatting:
 - (a) Underlining hyperlink
 - (b) Adjusting extra space
 - (c) Replacing two -'s with an em hyphens
 - (d) ✓ All of above
- 86. Which of the following is not a way to create a new presentation?
 - (a) ✓ Using the Scan-in-Slides feature
 - (b) From scratch (create a blank presentation
 - (c) Using a template
 - (d) Using the auto content wizard
- 87. The quickest way to create a PowerPoint presentation is to use the:
 - (a) Word for windows templates
 - (b) Auto creation wizard
 - (c) ✓ Auto content wizard
 - (d) Presentation wizard
- 88. Which of the following can you format using buttons on the formatting toolbar?
 - (a) Your hard drive
 - (b) Format painting
 - (c) Font color
 - (d) ✓ Underlining
- 89. Which tab is not available on left panel when you open a presentation?

472	96 Which of the following
(a) Outline (b) Slides	96. Which of the following pane is not available in Task Pane?
(c) Notes (d) All above	available in Task Pane?
90. Which of the following statements is	() Catting Start
not true?	(b) Clip Art
(a) ✓ You can type text directly into a	a (c) ✓ Word Art
PowerPoint slide but typing in	(d) Search Results
text box is more convenient	97. Which of the following pane is NOT
(b) From Insert menu choose	available in Task Pane?
Picture and then From File to	
insert your images into slides	(b)√ Master Slide
	(c) Slide Layout
(c) You can 'display a PowerPoint presentation in Normal, Slide	(1) Clide Transition
Sorter or Slide Show view	98. A new presentation can be created
	from:
(d) You can how or hide task pane	(a) Blank Presentation
from View >> Toolbars	(b) From Existing Presentation
91. To start Microsoft PowerPoint	(c) From Design Template
application:	(d)√ All of above
(a) Click on Start » Programs >>	99. In slide layout panel how many
All Programs» Microsoft	layouts are available for text layout h
PowerPoint	default?
(b) Hit Ctrl. + R then type point text	(a)√ 4 (b) 7
and Enter	(c) 12
(c) ✓ Click Start >> Run then type	(d) None of these
power point then press, Enter	100. Which of the following statement is
(d) All of above	false?
92. Which of the following section does	(a) If you choose to select from one
not exist in a slide layout? (a) Titles (b) Lists	of the pre-made slide layouts.
	you can change the positioning
	(b) ✓ If you choose to select from the
93. PowerPoint presentations are widely	pre-made slide layouts, you
used as:	cannot, delete the objects in the
(b) Note outlines for teachers	
(b) Project presentations students	(c) Blank Slide is at the top of the
(c) Communication of planning	(c) Blank Slide is at the top of the 'Content Layouts' area in the
(d) ✓ All of above	Content Layouts area and
94 controls all the main slide q	Slide Layout panel.
control tasks for your presentation:	(d) All of above are false statements
(a) ✓ Task Pane (b) Task Bar	101. What lets you to create new
(c) Control Panel	presentation by selecting readymade
(d) None of these	font color and graphics effects.
95. Which of the following cannot be	(a) Presentation Template
toggled from View >> Toolbars?	(b) Master Slide
(a) Control Toolbox	(c) ✓ Design Template
(b) ✓ Slides	
(c) Revisions	
(d) Reviewing	102. Which command will you do the PowerPoint if you need to change the
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95.

Computer – MCQs	
color of different objects without	108.
changing content?	100.
(a) Design Template	
(b) ✓ Color Scheme	
(c) Font Color	
(d) Object Color	
103. What Power-Point feature will you	
use to apply motion effects to	109.
different objects of a slide?	
(a) Slide Transition	
(b) Slide Design	
(c) Animation Objects	
(d) ✓ Animation Scheme	110.
104. What feature will you use to apply	
motion effects in between' a slide exits	
and another enters?	
(a) ✓ Slide Transition	111.
(b) Slide Design	
(c) Animation Objects	
(d) Animation Scheme	
105. The selected design template can be	
applied:	¥1
(a) To current slide only	
(b) To all the slides	
(c) To all the new presentation you	
create .	
(d) ✓ All of above	112.
106. The difference between Slide Design	
and Auto Content Wizard is	10 militaria
(a) Both are same:	-
(b) AutoContent Wizard is just the	11.1
wizard version of Slide Design	1.5088
(c) Slide Design does not provide	
sample content but Auto	
Content Wizard provides	317 81
sample content too	
(d) None of these	113.
107. Slide Design asks your choice in steps	
but Auto Content Wizard does not let	
you make choices.	
In which menu can you find features	
like Slide Design Slide Learning 2	
like Slide Design, Slide Layout etc.?	114.
(a) Insert Menu	114.

- (b)√ Format Menu
- (c) Tools Menu
- (c) Slide Show Menu

- Which menu provides you options like Animation Scheme. custom Animation, Slide Transition?
 - (a) Insert Menu
 - (b) Format Menu
 - (c) Tools Menu
 - (d)√ Slide Show Menu
- How many steps are there between Start and Finish in AutoContent Wizard?
 - (a)√ 3 (b) 4 (c) 5
 - (d) 6
- Which short cut key inserts a new slide in current presentation?
 - (a) Ctrl+N (b)√ Ctrl+M
 - (c) Ctrl+S (d) All
- What happens if you select first and second slide and then click on New Slide button on toolbar?
 - (a) A new slide is inserted as first slide in presentation
 - A new slide is inserted as (b) second slide in presentation
 - (c) \checkmark A new slide is inserted as third slide in presentation
 - None of above (d)
- Which of the following method can insert a new slide in current presentation?
 - Right click on the Slide panel (a) and choose New Slide
 - From Insert menu choose New (b) Slide
 - Click on New Slide button on (c) toolbar
 - $(d) \checkmark$ All of above
- Which of the following is not a part of Slide Design?
 - (a) **Design** Template
 - Color Scheme (b)
 - Animation Scheme (c)
 - (d) ✓ Slide Layout
- What is the best way to create another copy of a slide?
 - Click the slide then press (a) Ctrl+A and paste in new slide

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474	121. List Box and Text box:
	(a) \checkmark Are some other than that in a $ _{151}$
(D) From model	box the bullets are enabled
Dada overwhing on a new shee	(b) Are different. List boxes
(c) Redo everything on a new ious that you had done. on previous	used to present lists and can't be
	created with text boxes.
slide (d) None of above	(c) Bath of above
(d) None of above 115. From which menu you can access	(d) None of above
Picture, Test Box, Chart etc?	122. Which of the following statement is
	true?
(a) (Legert (d) View	(a) Vou can insert text boxes from
(c) mont to insert some slides from	drawing toolbar in PowerPoint
other presentation into current. one	are connot insert text hove
1	(b) You cannot insert text boxes from drawing toolbar in
choose: (a)√ From Insert menu choose Slides	PowerPaint
(a) From Files	Text hoxes are provides when
The sent menu choose Slides	(c) Text boxes are pre-
(b) From Insert ment encourse from Presentation	inserted afterwards
E Legert menu choose Slides	None of above
fahava	delete a text box abject
(d) None of above	
 (d) None of above 117. What are the three options available in Insert >> Picture menu? 	from a snee
Distures Shapes	Presentation (a) The object is deleted but text
Ener File Shapes	(a) The object is deleted is left on box and the text inside is left on
 (a) Clipart, From File, Shapes (b) Clipart, From Files, Auto shapes (c) ✓ Clipart, From Files, Auto shapes 	
(c) ✓ Clipart, From Flics, Auto Shapes	(b) The text box is deleted and the
(d) Clipart, Pictures, AutoShapes	(b) The text box is deleted and
118. To insert slide numbers:	text is pasted on the slide
(a) Insert a text box and .select	(c) \checkmark The text box and text bath are
(a) Insert >> Page Number Insert >> Page Number	deleted
(b) Insert a textbox and select Insert	(d) None of above
(b) Insert a texteen Page Number >> Number >> Page Number	124. Which of the following font effect is -
(c) Choose Insert >> Slide Number	not available in PowerPoint Font
(d) / Insert a new text box and screet	dialog box?
Insert >> slide Number	(a) Underline (b) Shadow
n DeverPoint presentation	(c) Emboss .
(a) Sound clips can be inserted but	in (a. it shows the
not movie clips	(d) ✓ Strikethrough 125. What happens if you edited an image
in aling can be inserted but	125. What happens if you a
(b) Movie clips can be motion not sound clips	 inserted in PowerPoint: (a) ✓ The original file that was
() a (1) commot be inserted	(a) ✓ The original me
(c) (a) & (b) cannot be inserted	inserted is not charge with
$(d) \checkmark (a) \& (b) can be inserted$	(b) The original
120. To insert a hyperlink in a slide:	inserted is changed
(a) Choose Insert » Hyperlink	aniginal file is the
(b) Press Ctrl + K	(c) The original me when you save presentation
(c) Hyperlinks can't be inserted in	
slides	
(d)√ (a) & (b)	

2.5

- 126. If you select Insert >> picture >> From File:
 - You can insert pictures and clip (a)Arts
 - You can insert clip Arts only (b)
 - (c) ✓ You can insert pictures only
 - None of above (d)
- 127. The effect applied to display when slides changes in slide show view is:
 - (a) Slide Animation
 - **Custom Animation** (b)
 - Custom Transition (c)
 - (d) ✓ Slide Transition
- 128. To start slide show of a presentation:
 - (a) Hit F5 key
 - From Slide Show menu choose (b) View Shaw option
 - From Slide Shaw menu choose (c) Rehearse timing.
 - (d)√ (a) & (b)
- 129. What is the term used -when a clip art image changes the direction of faces?
 - (a) Group (b) Flip
 - (c)√ Rotate (d) All above
- 130. The slide that is used to introduce a topic and set the tone for the presentation is called the:
 - Table slide (b) Graph slide (a)
 - (c) Bullet slide (d) \checkmark Title slide
- 131. Which of the following features should you use when typing in the notes text box?
 - (a) Slide show
 - (b) Insert
 - (c) Slide maser
 - (d)√ Zoom
- 132. Which option allows you to select line, curve, freeform or scribble tools?
 - (a) Create effect
 - (b) Insert motion path
 - (c) ✓ Draw custom path
 - (d) All of the above
- 133. Which of the following should be used when you want to add a slide to an existing presentation?
 - File, add a new slide (a)

- (b) ✓ Insert, New slide
- File Open (d) File, New (c)
- 134. The size of the organization chart object:
 - (a) Is determined by the presentation design and cannot be changed
 - (b) Is determined by the presentation design but can be changed in PowerPoint
 - Is dependent on the amount of (c) text within the organization chart
 - $(d) \checkmark$ (b) and (c)
- 135. Which of the following is the default page setup orientation of slide in PowerPoint
 - Vertical (a) (b) ✓ Landscape
 - (c) Portrait
 - (d) None of above
- 136. To show a PowerPoint photo album slide show to play continuously?
 - (a) \checkmark Use random slide transitions
 - Launch an online broadcast (b)
 - Loop continuously (c)
 - (d) All of the above
- 137. What is defined by the handout master?
 - (a) Slide formatting
 - (b)√ Layout of audience handout notes
 - Handout content formatting for (c) Microsoft word export
 - (d) All of above
- 138. Which of the following tool enables you to add text to a slide without using the standard placeholders?
 - (a) ✓ Text tool box
 - (b) Line tool
 - (c) Drawing tool
 - (d) Auto shapes tool
- 139. In notes master view, how do you modify the font size of text for all the notes of a presentation?
 - Modify the slide design (a)
 - Modify the notes master layout (b)

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476	·
(c) ✓ Modify the text within the body	140
placeholder	140
(d) All of the above	
140 Want your logo in the same position	
on every slide, automatically? Insert it	
on the:	
(a) Handout master	
(b) Notes master	147.
(c)✓ Slide master	147.
(d) All of the above	
141 Which of the following views is the	
best view to use when setting	
transition effects for all slides in a	
presentation?	
(a) \checkmark Slide sorter view	
(b) Notes pages view	148.
(c) Slide view	
(d) Outline view	1.01
142. Objects on the slide that hold text are	
called:	
(a) ✓ Placeholders	1.97
(b) Object holders	100
(c) Auto layouts	
(d) Text holders	
143. Which of the following provides a	149.
means of printing out feature notes	
with a miniature slide on a printed	
page?	
(a) Slide with animation	
(b) Outline view	
(c) Notes page	316 8
(d) ✓ Audience handout	(
14. Which command brings you to the	150.
first slide in your presentation?	(
(a) Next slide button	
(b) Page up	(
$(c) \checkmark Ctrl + Home$	1. Soline
(d) Ctrl + End	
5. In normal view, how can you quickly	,
change to handout master view?	. (
(a) Click the outline tab and select	
and select	
handout master view	()
(b) ✓ Press the shift key and click the	151. V
nandout master view button	1
(c) On the view menu, click slide	1
sorter, and click handouts	(a
	(c

(d) All of above

- 146. How can you quickly reinstate a deleted footer placeholder in master view?
 - (a) Create a new slide master
 - (b) ✓ Re-apply the footer placeholder
 - (c) Re-apply the slide layout
 - (d) All of the above
- 147. Which of the following can you use to add times to the slides in a presentation?
 - (a) Slide show menu
 - (b)√ Rehearse timings button
 - (c) Slide transition button
 - (d) All of the above
- 148. To select all of the boxes of an organization chart:
 - (a) Clicking and edit and select all
 - (b) Right click the chan background and then click select all
 - (c) Press and hold the SHIFT key and click each box
 - (d)√ All of above
- 149. You can show the shortcut menu during the slide show by:
 - (a) Clicking the shortcut button on the formatting tool bar
 - (b) ✓ Right clicking the current slide
 - (c) Clicking an icon on the current slide
 - (d) (a) and (b)
- 150. Auto clipart is a feature that
 - (a) Automatically places clipart in your presentation
 - (b) Scans your presentation for incorrect spelling in your words on each slide
 - (c) Scans' your presentation for incorrect spelling in Word Arts objects
 - (d) ✓ All of above
- 151. Which file format can be added to a 'Power Point' show?
 - (a) jpg (b) giv
 - c) wav

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(d)√ All of the above

- 152. In Microsoft PowerPoint two kind of sound effects files that can be added to the presentation are
 - (a)√ wav files and .mid files
 - (b) way files and .gif files
 - (c) way files and .jpg files
 - (d) jpg files and .gif files
- 153. Material consisting of text and numbers is best presented as:
 - (a) ✓ A table slide
 - (b) A bullet slide
 - (c) A title slide
 - (d) All of the above
- 154. What is a motion path?
 - (a) A type of animation entrance effect
 - (b) A method of advancing slides
 - (c) ✓ A method of moving, items on a slide
 - (d) All of the above
- 155. What is a slide-title master pair?
 - (a) The title area and text area of a specific slide
 - (b) A slide master and title master merged into a single slide
 - (c) ✓ A slide master and title master for a specific design template
 - (d) All of above
- 156. Which of the following should you use if you want all the slide in the presentation to have the same "look"?
 - (a) The slide layout option
 - (b) Add a slide option
 - (c) Outline view
 - (d) \checkmark A presentation template
- 157. In the context of animations, what is a trigger?
 - (a) An action button that advances to the next slide
 - (b) ✓ An item on the slide that performs an action when clicked
 - (c) The name of a motion path
 - (d) All of above

INTERNET

Introduction: The Internet is the largest network of computers around the world. It connects many computer networks together all over the World. The computers connected to the Internet can exchange information with each other.

The Internet is used by billions of people today. It is used to exchange, messages, share information and buy or sell things. Many people also use it for entertainment like online games, movies, chatting and music etc.

History of Internet: The work on Internet was started in 1960s during the cold war of Russia and America. America wanted to communicate with its Armed Forces. A network of four computers was developed at start.

ARPANET: During Cold War. Russia launched Sputnik satellite and America developed a network. Its name was ARPANET. It was developed for Advance Research Project Agency (ARPA). ARPA worked on a project to send information to armed forces at long distances. Different organizations and universities also involved in this research.

Paul Baran: In 1964; Paul Baran published a paper on Distributed Communication Networks. It was a theoretical idea for data transfer.

It included the following:

- 1. Decentralization of data storage
- 2. Digital Packets
- 3. Routes for data transfer

Protocol: Protocol is a collection of rules. In 1970, NCP (Network Control Protocol) was developed. It was the first standard protocol for data transfer.

DARPA: DARPA stands for Defense Advanced Research Projects Agency. It was a new name of ARPA. Now 37 computers were connected together. DARPA started work to share data not, only on single network out also among different networks. Stanford Research Institute t.ook part in this research.

TCP/IP: A team of Stanford Research Institute developed a protocol called TCP/IP. It stands for Transmission Control Protocol/Internet Protocol. It was designed to share and transfer data among different networks.

BITNET & CSNET: BITNET, stands for Because It's Time Network and CSNET stands for Computer Science Network. These networks were used for academic and research purposes. In these networks, IBM computers and university computers were connected together.

World Wide Network: Soon the idea of Internet came out. Different universities and research, institutes started work on a global network. In 1986, NSF Net was developed. It connected academic researched of different counties together.

Internet: Internet is now the largest network in the world. Millions of computers are connected together through different medium. People can share information, data, any computer with a modem and telephone line can become a part of the Internet.

Connecting to the Internet:

Many home and small business, users connect to the Internet via high-speed broadband Internet service. The broadband Internet service allows the computer to be connected to the Internet the entire time it is powered on. Some examples of broadband Internet service are cable, DSL fiber, radio signals and satellite.

Cable internet: Cable Internet service provides high-speed Internet access through the cable television network via a cable modem,

DSL: It stands for digital subscriber line. DSL provides high-speed Internet connections using regular copper telephone lines.

Fiber to Premises (FTTP): It uses fiber-optic cable to provide high-speed Internet access to home and business users.

Fixed wireless: It provides higheed Internet connections using a dish shaped antenna on house or business to communicate with a tower location via radio signals.

Cellular Radio: A cellular radio network, offers high-speed Internet connections to devices with built-in compatible technology or computers with wireless modems.

WIFI: A Wi-Fi network uses radio signals to provide high-speed Internet connections to compatible or properly equipped wireless computers and devices.

Satellite: Satellite Internet service provides high-speed Internet connections via satellite, to a satellite dish that communicates with a satellite modem.

The employees and students typically connect their computers to the Internet through a business or college network. The business or college network connects to a high-speed broadband 'Internet service. Many home users set up a Wi-Fi network that sends signals to a communications device. That device is connected to a highspeed Internet service such as cable or DSL. Some home users also connect to the Internet via dial-up access instead of broadband connections. Dial up connection is a slow-speed technology. It takes place when the modem in computer connects to the Internet via, a standard telephone line li transmits data using an analog signal. This connection is used where broadband access is not available

Mobile users access the Internet using different Internet services. Many hotels and airports provide wired or wireless Internet connections as a service to travelers. Wireless Internet services such as Wi-Fi networks allow mobile users to connect easily to the Internet with notebook computers, smart phones and other mobile devices.

Advantages and Disadvantages of Internet: Some important advantages of Internet are as follows: 1. Information Search: Internet, contains information on all types of topics. People can search information on any topic. Search engines are used to search information on Internet.

2. Email: Email is an inexpensive and fast way of communication. It is used to send messages, pictures and files from one part of the world to another part.

3. E-Commerce: E-Commerce means to carry out financial and business dealings using Internet.

A person can deal with his customers throughout the world.

4. Online Results: Internet provides the facility to display results of students on websites. Many, colleges and universities provide online results. The students view the results from any part of world.

5. Online Shopping: People can buy and sell good on Internet. Even payments can be made using Credit Card numbers etc. The trend of E-Commerce is rapidly becoming popular.

6. Fast Communication: Internet is a way of fast communication. People can communicate with one another in less time from any part of the world.

7. Discussion Groups: People can communicate over the Internet using discussion groups. Different people discuss different' topics and distribute their ideas to other people by email. Software like listserv are available to administrate discussion groups.

8. Job Search: Internet is used to search different types of jobs all over the world. Many websites are developed that provide information to the people about job vacancies. Job seekers can also apply for the job using Internet.

9. Entertainment: Internet provides a lot of entertainment to the people. The users can play online games, listen songs, watch movies and live matches etc. Many websites provide entertainment material. People can also download entertainment stuff.

10. Online Education: A process of getting education via the Internet is called online education. Many websites provide tutorials and lectures on different subjects. Some websites allow' the users to download tutorials. It is a fast and cheaper way of educating a large number of people.

11. Research: The Internet provides many facilities for research work. It contains detailed information on different topics. The researchers can find the required information on Internet. They can also interact with other' researchers in the world to share knowledge and get guidance from them.

12. Advertisement: Many commercial organizations use Internet to advertise their products. They provide information about their products to the people all over the world. Internet is a quick and effective way of advertisement.

13. Video Conferencing: People can use Internet for video conferencing. They can talk on different topics by watching to one another.

14. Government Authorities: Government authorities can provide information about services and facilities for the people.

15. News: Most newspapers have their website. Latest news and interviews are provided on these websites.

16. Encyclopedia Publisher: Online encyclopedias are available. You can find detailed information on any topic in the world.

17. Search Engines: Search engine is a website that provides you the facility to find the required websites on a particular topic. You can find thousands of websites about any topic.

18. Medical: Many sites in the world provide detailed information on diseases you can also consult a panel of on-line

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doctor to get the advice about any medical problem.

Disadvantages of Internet: Some important disadvantages of Internet are as follows:

1. Hacking: Hacking is one of the most important disadvantages of Internet. The hackers access the data stored on computers across Internet. They can use this data illegally or even destroy it.

2. Immorality: Internet contains a large number of immoral websites. These websites contain such material that is against the moral values of our society. These websites are damaging the character of young people.

3. Security Problems: Internet has created many security problems. Important data can be hacked on Internet. Hackers also damage different websites and delete their contents. They also retrieve critical data of different organizations and governments.

4. Viruses: Internet is the most important source of spreading computer viruses. People spread viruses using Internet and emails. Many websites also contain different viruses that are copied to the computers when the users visit these websites.

5. Wastage of Time: Many people use Internet without any positive purpose. The young people waste their time in chatting. It affects their performance and makes them inefficient.

6. Cyber Crime: Internet is a source of many cyber crimes. People use Internet for negative activities. They hacks the credit card numbers of the people and use them for shopping. Some people use Internet, to spread illegal and immoral material. Many governments are introducing laws to stop cybercrimes.

Benefits of internet for Students: Some important benefits of Internet for, students are as follows: 1. Online Education: Many colleges and universities in the world provide the facility to get education using Internet. Students can earn degrees and diplomas from home via the Internet.

2. Downloading Software: The students can download many educational software from the Internet. These software can help the students to improve their knowledge.

3. Online Results: Internet provides the facility to display results- of students on websites. Many colleges and universities provide online results. The students view the results from any part of world.

4. Online Tutorials & Lectures: Many websites provide tutorials and lectures on different subjects and topics. Some websites allow the users to download these tutorials. The students can use these tutorials and lectures to learn different subjects.

5. Research: Internet provides many facilities for research work. It contains useful information on different topics for the researchers. The researchers can also interact with one another to share knowledge and get guidance.

6. Online Encyclopedia: Online encyclopedias are available on the. Internet. The students can find detailed information on any topic in the world.

7. Discussion Groups: The students can communicate with, other students over the Internet using discussion groups. Different students, discuss different educational topics and distribute their ideas to other students.

8. Information Search: Internet contains information on all types of topics. Search engines are used to search information on Internet. The students, can search information on any topic.

Benefits of Internet for Business: Some important benefits of Internet for business organization are as follows:

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1. Marketing and Advertising: A business organization can use the Internet to market and advertise products all over the world. The use of popular websites is an effective way of introducing a product to the customers.

2. Providing Customer Services: A business organization can interact with the customers using the .Internet. The businessman can discuss different issues about their products. He can also deal with their G9mplaints and provide different services to them.

3. Online Trading: Online trading is a process of conducting business using the Internet. A business organization can do all trading activities electronically. The products can be displayed on the website where the customer can buy these products. The customers can also pay by credit card. It is and easier and quicker way of trading.

4. Wider Customers Base: Organizations at distant places can interact with customers easily. Any person from any part of the world can be their customer. It provides a wider customers base for any business organization.

5. Competitive Advantage: Companies using the Internet in business are more competitive because they can offer their products and services to more customers well in time.

Services of Internet

Some important services of the Internet are as follows:

1. World Wide Web (WWW): WWW stands for World Wide Web. It is also called Web. It provides the facility-to Publish information-on the Internet. It is a collection of documents or web pages stored on computers permanently connected with Internet around the world.

A web page is a document that may include text, graphics, sound and video etc. These web pages are connected to one another using hyperlinks. Web pages are also known as hypertext documents. Anyone can view web pages through a web browser. A collection of related web pages is called website. Each website has a unique address. Websites are stored on a host computer on the Internet. These computers are known as web server. The process of launching a web page is called publishing the page.

PURPOSE AND USES OF WWW

The uses of WWW are as follows:

1. Advertisement: Manufacturers use WWW to provide information of products.

2. Shopping: It is possible for the users to buy an item using WWW. You can see products and prices, and even order them by using your credit card etc.

3. Flight information: It is used to provide the latest information on flights arrivals and departures.

4. Television Station: WWW is used to provide information about the programs, latest news and special events. Some television shows different events live on the websites.

5. Celebrities: Important celebrities can contact their fans provide information about them and send their pictures.

6. Government Authorities Government authorities can provide information about services and facilities for the people.

7. News: Most newspapers have their website. Latest news and interviews are provided on these websites.

8. Encyclopedia Publisher: Online encyclopedias are available. You can tind detailed information on any topic in the world.

9. Search Engines: Search engine is a website that provides the facility to find the required websites on a particular topic.

10. Medical: Many sites in the world provide detailed information on diseases You can also consult a panel of on-line doctors to get the advice about any medical problem.

Email (Electronic Mail): Email stands for Electronic Mail. It is the exchange of files through Internet. and messages Message can be in the form of graphics, sounds, video clips or simple text, it is a fast way of sending messages anywhere in the world. The sender and received may be sitting in the same building or anywhere in the world. One email message can be sent to multiple recipients. Email facility is provided by many Internet Service providers or specialized websites. Yahoo, Hotmail and Gmail are examples of popular email providing websites.

Social Networking: Social networking is a way of building online communities. The people use social networking websites to interact with one another. The popularity of online social networks has increased dramatically during the past several years.

Some social networks allow the users to create personalized profile that can be viewed online. These profiles may include information such as hometown, age, hobbies and pictures etc. The user can create links to friends' pages and post messages for friends. Online social networks ore used to keep in touch with friends and meet new friends. Some examples of social networking sites are as follows:

Online S	Social	Web address
Network		,
Facebook		www.facebookcom
Linkedin		www.linkedin.com
MySpace		www.myspace.com
Orkut		www.orkut.com
Google+	-	https://plus.google.com

VoIP: VoIP stands for Voice over Internet Protocol. It is also called Internet telephony. It is used to speak to other users over the Internet. It uses the Internet to connect a user to other user. It requires highspeed Internet connection like DSL. Mailing List: A mailing list is a collection of email names and addresses given a single name. An email message sent to a mailing list is received by every person on the list. Different people discuss different, topics and distribute their ideas to other people by email. Software are available to administrate mailing lists. The most common program is listserv.

News Groups: A newsgroup is a discussion group on the Internet. People exchange information on a vast range of topics such as news, business, science and computer. A user sends message lathe newsgroup to participate in discussion. Other users in the newsgroup read and reply to the message.

A software is required to obtain articles from news server. A news server is a host computer that exchanges articles with other servers on the Internet. These servers use Network News Transfer Protocol (NNTP) to communicate. The users have to subscribe on a news group to view articles on a specific topic.

E-Commerce: e-Commerce stands for Electronic Commerce. E-Commerce means to carry out financial and business dealings using Internet. A person can deal with his customers throughout the world People can buy arid sell good on Internet. They can also pay bills using credit card numbers

Role of E-Commerce: The role of e commerce in daily life is becoming very important. E-commerce can be used in the following ways:

1. Electronic Banking: Many banks are now introducing electronic banking Using your computer, you can connect to the bank's computer system via the Internet and control your daily financial dealing from home. It reduces the staff and building of banks. Many customers pay their bills from their bank accounts using this facility.

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2. Electronic Shopping: It has become very easy for the people to shop from, home using Internet. Different manufacturers present their products on the Internet. People can browse the website, place an order and even make a payment using credit card. It has made shopping very easy.

Conducting 3. Auctions: Many websites provide the facility of auction. People participate in the auction to purchase a product. They can also pay the price using their credit cards etc. A popular website that provides this facility is eBay.

4. Marketing and Advertising: Ecommerce plays important part to advertise, products all over the world. The use of popular websites is a useful way of introducing a product to the customers.

5. Providing Customer Services: Businessmen can interact with their customers, using the Internet. They can discuss different issues about their products. They can also deal with their complaints and provide different services to them.

6. Online Travel Reservations: Online travel reservation is a popular use of e-commerce. People can reserve seats in airline flights, hotels' or car using the Internet.

7. Online Trading: Online trading is a process of conducting business using the Internet. The, stockbrokers can submit and receive bids using computers. They can also . interconnect with computer display screens where brokers match buyers with sellers. It reduces cost as no paper or special building is required to conduct these activities.

Videoconferencing: conferencing is a type of conferencing in which video cameras and microphone are used. It provides an environment of normal meeting. It enables participants to see, hear and present material to one another as if they are in the same room. Video conferencing

can speed up business process procedures. and

TELNET: TELNET is a program that is used to connect to a remote computer on Internet. A computer can act like a terminal directly linked to the remote computer. It allows a user to logon to a remote computer. The user can logon to the computer and use it as if he is connected to the computer directly.

FTP: File Transfer Protocol is used to transfer files over the Internet. Audio, video. graphics and data files can be uploaded or downloaded using this protocol. A process of transferring a file from remote computer to local computer is called downloading. The process of transferring a file from - a local computer to remote computer/is called uploading. Different software are available to use this protocol for transferring files on the Internet. CuteFTP and WS_FTP are examples of FTP software.

Internet Relay Chat (IRC): Internet Relay Chat is a real-time Internet-based chat service. Chatting is a process of exchanging views on the Internet by typing text messages in real-time. Many users join chat groups for exchanging views. Chat group is a group of users with similar interest. Chat groups are also called channels. IRC requires the use of IRC client program that displays a list of current IRC channels.

Instant Messaging (IM): Instant messaging is real-time a Internet communication service. It uses text based conversation like chat group. The users set up a list of contacts called buddy list. The contact must be online to participate. The online members in buddy list can exchange messages and files. 1M software detects the presence of online members. Two examples of IM are America Online's Instant Messenger and Yahoo Messenger.

Basic Terminologies of Internet: Some important terminologies of Internet are as follows:

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1. Website: A collection of related web pages that you can access electronically is called website. It contains text, graphics, sound and video. There are different types of websites that provide different types of contents such as news, information, education and entertainment etc. A website must be stored on a web server to be accessible all over the world.

2. Home page: The starting web page of q website is called home page. It is similar to a book cover or table of contents for the site. It provides information about the site's purpose and content.

3. Hyperlink: A hyperlink is simply part of the text (or graphics) on a web page, that when clicked on will automatically.

(i) Take you to a different part of the same page

(ii) Take you to a different page within the web site

(iii) Take you to a page in a different web site. Enable you to download file launch an application, video or sound

4. Anchor: An anchor is a link to different parts of the same web page.

5. 'Image Map: An image map is a clickable image that is divided into different' regions or areas. These regions are also called hotspots. Each region of image map is linked to a different URL. It loads different web pages when the user clicks its different parts.

For example, the following image contains three shapes. Each shape of the image can be used as a separate hyperlink.

6. Frame: A frame is a. container window that can display a web page. A web page may consist of many frames. Each frame in the browser window can display different web pages. Many web pages can be displayed at the same time by using frames.

7. Table: Table is a collection of rows and columns to display data in tables in a web page. 8. HTTP: It stands for Hyper Text Transfer Protocol. It is a communication protocol used to connect to servers on the World Wide Web. The primary function of HTTP is to establish a connection with a Web server and transmit HTML pages to the user's browser. It allows computer users to access the Internet.

9. HTML: HTML stands for Hyper Text Markup Language. It was developed in early 1990s'. It is a formatting language to design web pages. HTML is not a programming language. It is used to define text graphics, audio and video in web pages. It uses III tags or markups to specify how' the contents of web page will be displayed in the web browser. HTML code can be written in any text editor like Notepad.

10. Webmaster: Webmaster is the person who develops and maintains a web site. He is responsible for the proper working and updating of the whole website.

Some important responsibilities of a webmaster are as follows:

(i) Designing the Web site

(ii) Creating and updating Web

(iii) Replying to user feedback

(iv) Monitoring traffic through the site

(v) Ensuring that the web servers, hardware and software are operating accurately

11. Domain Name: Domain name is the unique name given to a web site. This name is linked to a web server where the information of that web site is stored. <u>www.hec.edu.pk</u> is the example of a domain name.'

12. URL: URL stands for Uniform Resource Locator. The URL is the web address for any given web document. Ever) web document has unique URL. A URL has

several parts as follows: http://www.google.com/services/index.htm

http:// This part indicates the protocol used to retrieve the specified document. The protocol is generally followed by a colon and two forward slashes.

www This indicates World Wide-Web.

Google.com This part is the domain name and indicates the unique address of a Website. The domain name is also called the host name,

/services/ The slash indicates a specific directory within a website. Directories are like the folders on computer and help to organize Web pages in Web sites.

Index.htm A word with .html extension indicates the name of a page in the website.

13. ISP: ISP stands for Internet Service Provider. It is a company that provides Internet connections. ISP also provides the facilities of Email. A connection from ISP is necessary to connect to Internet. Different ISPs in Pakistan are as follows:

(i) PTCL

(ii) World Call

(iii) Wateen Telecom

14. Blogs: Blog is a shortcut for Web log. Blogs are used by the Internet users to publish views. It is an easy way for individuals to express' opinions online. It has become a powerful tool for individuals, groups and businesses to promote ideas and advertise the products. Bloggers generally update the website frequently. Their posts often contain links to other websites.

The more popular blogs discuss politics, lifestyles and technology. Individuals may setup a blog easily free or for a fee using websites such as Blogger. Bloglines and TypePad. The online social networks may have a built-in blogging feature.

Web Browser: A web browser is software that is used to view web pages. It acts as an interface between the user and the Internet. It can understand HTML. It can display text and graphics. Browsers are also known as web clients or universal clients.

Some popular web browser are as follows:

(i) Internet Explorer,

(ii) Mozilla Firefox

(iii) Google Chrome

(iv) Opera

(v) Safari

Functions of Web Browser: Some important functions of web browsers are as follows:

Web Browsing: It is the most important function of 'a web browser. T-he user can browse different websites using web browser and see the contents of websites. 'The web browsers provide different buttons to brow er easily such as Back, Forward, Stop and Refresh etc.

Tabbed Browsing: Tabbed Browsing Tabbed browsing allows the user to open multiple pages in the same browser window. Each webpage is loaded in separate tab. The user can move between different pages more easily.

Search Box: The web browsers provide a built-in search box. The user can designate the preferred default search engine for search.

Favorites: A web browser provides the facility to store favorite website address in a list. The user can go to any web page in the list by clicking on it. The user does not need to remember the addresses of favorite websites.

Browsing History: A web browser maintains browsing history. It stores the visited links so that the user may visit these websites again easily.

Mailing: A web browser also provides the facility to read or send e-mail. The user can also op n up newsgroups etc.

Printing: A web browser can print the web pages. The user can print the whole, web page or any part of the web page by selecting.

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AutoComplete: A web browser stores the addresses of all websites that, have been Visited by the user. AutoComplete feature displays complete address of a website as the user starts typing that address in the address bar. The user does not need to type the complete address. It saves a lot of time.

Web Server: A web server is a computer that is used to store information for the users on the Internet. A web server is much faster and powerful than ordinary computer. It may be located anywhere in the world. Servers are connected to the Internet 24 hours a day.

The web sites are published on the WWW and you use your browser programs to read these web sites. In fact the data is stored on web servers. These web servers are connected to Internet. The users read data and information from these web servers.

Microsoft Internet Explorer: Internet Explorer is a very popular and commonly used web browser. It is a part of Windows operating system. If provides different menus, buttons and icons to access different websites and web pages. The following method is used to access different web pages using Internet Explorer:

Open Internet Explorer.
 Type the URL

www.google.com in the address bar.

3. Press Enter. The web page will appear in the browser.

4. Type the following addresses in the address bar one by one:

- www.yahoo.com
- www.urdupoint.com
- www.jang.com.pk

EMAIL

Introduction: The process of sending and receiving messages and files electronically is known as email. The user can send and receive email messages anywhere in the world through the Internet. The sender and receiver must have email accounts. People can also attach pictures, programs and sounds with an email.

Advantages and Uses of Email: Some advantages of email are as follows:

(i) It is very fast and timely.

(ii) It is very cheap and inexpensive.

(iii) People can send and receive message anywhere in the world.

- (iv) People can share your information among different people.

(v) It is possible to send and receive email through mobile phone.

(vi) Email gives us the facility to send pictures, sounds and videos.

Limitations / Disadvantages of Email: Some limitations of email are as follows:

1. Lack of Privacy: Email does not provide high privacy. It passes from one system to other through different networks. System administrator of a network or a hacker can read it.

2. Junk Email: Junk email is an unwanted email. It is also known as spam. A person may send such email that the receiver does not want to read. Sometimes, junk emails are in such number that it fills the space of email account.

3. No emotions: An email message cannot express emotions properly. The receiver cannot view facial expression of voice of the sender. He may also interpret a humorous message wrongly.

4. Possible Delay: Email is read when the user connects to the Internet and checks email account. An urgent message may be ignored or delayed if a person does not check his email account soon.

5. Communications Problems: Email may not be delivered successfully due to communication errors.

6. Spreading of virus: Most of the viruses are spread through email messages. Scanned with CamScanner

Virus can spread if the user opens an email containing a virus.

Working of Email:

An email program is used to create, send and receive emails. It is also known as email client. When the user sends an email message, the computer connects to an email server and transmits a copy of the message to that server.

Email server is a host computer on the Internet that is used to send and receive emails: The email server receives the message and finds out the email server where that email is to be sent. It connects to that server and transmits other copy of the message.

Email Attachment: An email message can- also contain attachments. Attachment is a process of sending connecting files with email message. Any type of file can be attached to email such as documents, spreadsheets, audio and video etc.

MIME is an Internet protocol that supports email attachrTlents. It stands for Multipurpose Internet Mail Extension. Different websites provide different file size that can be attached with an email message.

Email Address: Every email account has unique address. An email address usually has two parts which are separated by the symbol @. These parts are as follows:

User ID

Identity of email service

Example:

myemail@hotmail.com

In this example:

Myemail

It is called user ID. It is used into email service.

It is "at" sign. It separates account ID from name of email service provider.

hotmail.com. It indicates the email service provider.

Email Service Provider: The email service provider is the Internet Company or organization that provides the facility of email. Many email service providers 'Provide their services free cost.

The most popular web-based email service providers are Yahoo mail, Hotmail and Gmail. Their email service is very reliable and efficient. The user can access the services by creating an email account: The website address of Yahoo mail and Hotmail and Gmail areas follows:

(i) www.vahoomail.com

(ii) www.hotmail.com

(iii) www.gmail.com

Creating Hotmail Email Account: Hotmail is a free email service run by Microsoft. It used to send and receive email from any computer that is connected to the internet. Hotmail is the most widely used email service on the internet. it has a userfriendly interface. It allows users to use it without any difficulty. A user can create many accounts.

- 1. Open internet Explore
- 2. Type www. Hotmail.com OR www. Outlook.com in address bar and press enter.

The Hotmail home page will appear.

- Click sign up now to create a 3. new email account. The user Registration form will appear.
- 4. Enter your first name in first box.
- Enter your second name in 5. second box.
- Enter the birth date in Day. 6. Month, and year boxes.
- Select the gender from Gender 7. list.
- Enter the email username in 8. Microsoft account name box and select the domain name from the list.

	To: It is u
9. Enter a password in Create a	address of the pers
Password box. Use a password	email.
that can be remembered easily.	Cc : It stand
10. Enter the same password in	used to enter the
Reenter password box.	person. A copy of e
11. Select the country name with	address.
dialing code and enter your	Bcc : It stand
phone.	It works similar to
12. Enter the alternate email in	the recipient canno
Alternate email address box. It	typed in this box.
is used to retrieve password if	Subject : I
the user forgets it OR click Or	subject of the mess
choose a security question and	to the message
enter the security question and	"Timetable" or "Le
answer for password retrieval.	Message : It
13. Select you country or region	the subject. It is
from Country/Region list.	message to be sent
14. Enter you postal code in Postal	Attach files
Code box.	or photos with ema
15. Enter the given code in	Inbox : It
Characters box.	
16. Click the checkbox if you want	messages received
to receive email from Microsoft	Sent : It show
about different offers.	to other users.
17. Click 1 accept. A message will	Deleted : It s
appear if the username is	that have been del
available enter a different user	any deleted messag
name if it is not available.	Composing
18. Click on Go to inbox if the	The process of wr
email account is created	called composing
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Hotmail.	address of the rece
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the top right of the screen. A	1. Open
menu will appear.	2. Enter
21. Sign out to log out the email	click
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used to enter the email son who will receive the

ds for carbon copy. It $_{15}$ email address of another email is sent to this email

ds for blind carbon copy Cc. The difference is that ot see the email addresse

t is used to write the sage. It should be related The examples are ave Application" etc.

is the big textbox below used to type the actual to a person.

: It is used to attach files il.

shows incoming email from other users.

ws the email message sent

shows the email messages eted. The user cap access ge if required.

and Sending an Email: iting an email message is an email. Sent is a folder email messages that have plays the name or email eiver and the subject of the splays the date and time is sent.

ing procedure is used w

- Hotmail home page.
- email id and password and sig in button. The email nt will open.
- New on the top of the 1. A new window will appear.

- 4. Type the email address in To box.
- 5. Type the subject of email message in Subject; box.
- Type the email message in the box below the subject.
- Click insert button and select Files as attachments to attach to file with the email. The open dialog box will appear.
- 8. Select the required file and click Open button. The file will be attached to the email and will appear below the subject.
- 9. Click Send. The email message will be sent to recipient email address.

Checking an Email: checking an email means to read the email from the inbox folder. All emails are stored in inbox. The user can check the email from this folder. The emails n this folder can be arranged by date or time. If displays the name or email address of the sender and the subject of the email. It also displays the date and time when the email was received. The following procedure is used to check on email:

- 1. Sign into email account.
- 2. Click inbox. The list of emails will appear.
- 3. Click the desired email. The email message will open.

The following actions can be performed on he opened email—

Reply: It is used to reply the sender

Reply All: It is used to reply all persons whose email address is present in open email.

Forward: It is used to send the opened email to another email address.

Delete: It is used to delete the opened email.

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Junk: It is used to include the opened email in junk list. All emails coming from this email address will be sent to junk folder.

Deleted or Trash: The deleted or trash folder is used to store the deleted emails. A user can access an email from this folder after it has been deleted. The emails are automatically removed from folder after ten days.

Deleting an Email: The following method is used to delete an email:

- Sign in to the email account and open Inbox
- 2. Select the email to delete.
- 3. Click Delete. The selected email will be deleted.

Sign out an Email Account: Sign out means to close the email account. The user should sign out the email account after completing the tasks. It is important to protect the email account from unauthorized access by another person.

The following procedure is used to sign out an email account.

Click Sign out. The email account will be signed out.

Web Directories: Web directory is used to search general information on a broad topic or to explore different areas of a broad topic. The directories are arranged by subject. They usually include links to the top level of the website rather than to pages within the website. The user searches by selecting a broad category and then narrows the search step by step. For example, a user may start the search with category of Social Sciences. He can move to History. By Region, Africa, Egypt Ancient Egypt and then Pyramids. The results of different directories very widely as websites includes in each category are selected by the people instead of machines.

Some examples of web directories are as follows:'

www.ipl.org www.looksmart.com 489

www.webbrain.com

Search Engines: Search engine is a website that provides the facility to find the required websites on a particular topic. A user can search any topic on Internet using search engines. Internet contains a lot of information. A large number of websites about different topics are available. A user cannot remember all websites. He can search different websites using search engines.

Search engine contains the record of many websites. It searches the required websites and display them to the user. Search engines are very powerful tools for finding information.

Searching the Web: Keywords are used to search the required information from search engine.

Keyword is a word or set of words that is related to the topic being -searched. The keyword is typed in double quotation if it consists of two or more words.

For example, the following keywords can be used to search information about Pakistani universities:

> "Pakistani Universities" (i)

(ii) "Universities in Pakistan"

The Boolean operators are also used to search the required information from search engines. All search engines do not provide the facility of using Boolean operators. The Boolean operators are as follows:

1. AND operator: It is used to search on the basis of all words in the search string such as "British AND Novels". This search string will search for the websites that contain both words. The symbol + can also be used instead of AND.

2. OR operator: It is used to search on the basis of any word in the search string such as British OR Novels. This search string will search the websites that contain any of the two words. The symbol can also be used instead of OR

3. NOT operator: It is used to search on the basis of any word other than the search string such as "New York NOT City". This search string will search for the websites that contain the word "New York" but not "New York City".

Most Popular Search Engines: Some popular search engines are as follows:

- Google: http://www.google.com 1. '
- Yahoo: http://www.yahoo.com 2.
- Bing: http://www.bing.com 3.
- Ask: bttp://www.ask.com 4
- Hotbot: http://www.hotbot.com 5.
- Excite: http://www.excite.com 6
 - Intranet & Extranet

Using Google Search Engine: the following method is used to find information using Google search engine-

- Open the web browser 1.
- Type www.google.com in the 2. address bar and press enter. Google home page will appear.
- Type in the keywords "History 3. of Pakistan" in the text box.
- Click Google Search button. 4. The search will start and a list of Web sites related to the search topic will appear.

Using Yahoo Searching Engine: The following method is used to find information using Yahoo search engine-

- 1. Open the web browser.
- Type www. Yahoo. Com in the 2. address bar and press Enter. Yahoo home page will appear
- Type in the keywords related to 3. . the search in the text box.
- Click Search button. The search 4. will start and a list of websites related to the search topic will appear.

Click any website to open it.

Internet & Extranet: Intranet is an internal network of an organization that uses Internet technologies. It is normally used to

provide the information of the organization to the employees. It is a small Internet within an organization. It uses TCP/IP technologies and has a Web server. It also supports multimedia Web pages that ore viewed in a web browser. Some intranet may also provide access to the Internet. Some organizations also use extranet. It allows the customer to access a part of intranet.

Extranet: Extranet is a collection of two or more intranets. Different organizations can use extranet to share the information of their intranets. An organization can apply security measures to provide limited access to the employees of other organization using the extra net.

Difference between Intranet and Extranet: The difference between intra net and extranet is as follows—

Intranet	Extranet
Intranet contains the information of one organization.	Extranet man have
Intranet; is to provide information to the employees	Extranet is used to share information with other organisations

Computer Security Threats: Computer security is used to protect computer system and data. It protects computer system from damage as well as unauthorized access. Different methods are used to ensure the security of a computer system.

A computer security threat is any event or action' that can cause loss or damage to computer hardware, software, data, information or processing capability. There are different threats to computer security. Some security threats may occur accidentally and some may occur intentionally.

threats are as follows:

1. Virus: Computer virus is a program that may disturb the normal working of computer without the knowledge or permission of the user. It is the most common and we known computer security threat. Virus attaches itself to the files in flash drives hard disks and email attachments. A file containing a virus is called infected file. The virus is activated when the infected file is executed.

Examples

Some examples of computer virus are as follows:

- (i) Cascade
- (ii) Zmist
- (iii) AntiExe
- (iv) FRQDO
- (v) Blaster

Problems Caused by Virus: Virus can cause many problems. It may:

- (i) Damage the stored files
- (ii) Erase data stored on the disk
- (iii) Affect the normal working of the computer
- (iv) Display unusual messages

2. Worm: A worm is a program that copies itself repeatedly in memory or on disk until there left no space. The computer may stop working in this situation. Worm spreads from one computer to another through networks.

Examples:

- (i) SQL Slammer
- (ii) Sasser
- (iii) The Blaster Worm
- (iv) Melissa

Problems Caused by Worm: Worms can cause different problems it may:

- (i) Destroy files stored on the computer.
- (ii) Slow down the computer
- (iii) Cause some programs to stop working

3. Adware: Advertisements on the computer without the permission of the user.

The advertisements may appear in the form of banner or pop-up windows, Adware records the interests of the user while using the Internet. It displays the advertisements according to the interests of the user. It may also download some malicious software on the computer. Adware can be a part of user interface of the software. It may also appear during software installation.

Examples: some examples of adware are as follows—

- (i) Dollar Revenue
- (ii) Mirar Toolbar

' (iii) Comet Cursor

SHORT QUESTION'S

Q. Define Internet.

- Ans: The Internet is the "largest network of computers around the world. The computers in the Internet can exchange information with each other.
- Q. What are major differences between Dial-up and DSL connections?
- Ans: The major difference is that dialup connection is cheaper and slower than DSL. Dialup connection makes telephone line busy but DSL connection allows the user to make phone call at the same time.
- Q. Define Word Wide Web.
- Ans: World Wide Web is a collection of web pages on the Internet. It is used to view information in the form of text images, audio or video.
- Q. Differentiate between Internet and Word Wide Web.
- Ans: The Internet is the largest network of computers around the world. World Wide Web is a collection of web pages on the Internet.
- Q. Define Web Browser.
- Ans: A web browser is a software that is used to access the Internet and its services. The user can view web pages using a web browser.
- Q. Define URL.

- Ans: URL (Uniform Resource Locator) is an address of a web page on the Internet. Every web page has a unique address. A web page can only be accessed by using its URL.
- Q. Define Search engine.
- Ans: Search engine is a website that is used to find the required information on the Internet. Search engines are very powerful tools for finding information.
- Q. What is difference between URL and Website?
- Ans: URL is a web address for any given web document. Every web document has a unique URL. Website is a collection of related web pages stored on computers around the world.
- Q. What is web hosting?
- Ans: Web hosting is a facility for providing space on Internet for storing web pages. Web hosting is provided by different organization commercially.
- Q. What is uploading and downloading.
- Ans: The processing of copying data from your computer to Internet is known as uploading. T = process of copying data from-Internet to your computer is known as downloading.
- Q. What is the difference between an Internet address and a domain name?
- Ans: IP address is difficult to remember for the users. An alternative to IP address is known as domain name. A domain name consists of text instead of number. It is easier to remember a domain name than IP address. A domain name is associated with one or more IP addresses.
- Q. Differentiate between Web browser and search engine.
- Ans: A web browser is a software that is used' to access the Internet and its services. Search engine is a website that is used to find the required 'information on the Internet.

- Differentiate between the webpage 0. and website.
- Ans: A web page is a document on the World Wide Web. A web page may contain text. sounds, graphics. animations and videos. A website is a collection of related web pages maintained by a person or on organization.
- Differentiate between Chatting and 0. Instant Messaging.
- Ans: Chatting is used to communicate with different people allover the world. The instant messaging is used to chat with online friends. Many 1M services also provide the facility of audio/video conversation
- 0. Define email
- Ans: The process of sending and receiving messages and files, electronically is known as email. The user can send messages from computer to anyone in the world
- Define email account. 0.
- Ans: The storage area or mailbox supplied by an email service provider is called email account; each email account has a unique address.
- 0. What is an email address? Give its composition.
- Ans: The unique address of an email account is known as email address. The user name or ID represents email address. The domain is the name of computer that stores email messages. Q.
- What is the function of Cc feature?
- Ans: Cc: stands for carbon copy. It is used to enter the email address of another person. A copy of email is sent to this email address. Q.
- Differentiate between and attach remove option in email.
- Ans: The attach option is used to attach a file with an email message. The

remove option is used to remove an attached file from email message.

- **O**. Differentiate between email address and email account.
- Ans: The storage area or mailbox supplied by an email service provider is called email account. The unique address of an email account is known as email address.
- О. What is malware?
- Ans: Malware is short for malicious software. It is developed to create different problems in the computer system. It may damage or delete if important data and affect the working of the computer. Malware include viruses, worms and adware etc.
- What is the difference between virus О. and worm?
- Ans: Worm can spread copies of itself from one computer to another without being activated by users. A virus attaches itself to a program or file to spread from one computer to another. Virus cannot spread without a human action such as running an inicated program.
- Q. Define hacking.
- Ans: Hacking can be defined as unauthorized use of computer; network and its resources. A person who accesses a computer, network and its resources illegally is known as hacker.
- How an adware affect the working of О. computer?
- Ans: An adware can display advertisement on desktop. It can display new toolbar in the browser and add new programs in programs list. It can slow down Internet connection and may cause software failure.
- Why pirated software is a threat to the Q. safety of computer users?
- Ans: Pirated software is a threat to the safety of Computer users. It may steal personal Information of the user and

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copy viruses to the computer. It may also affect the normal working of the computer.

- How does antivirus software detect Q. viruses?
- Ans: The antivirus of software identifiesdifferent viruses using the virus scanning the while definitions computer. Virus different security threats like virus, worm and adware.
- Why is it important to update antivirus Q. software?
- Ans: The antivirus software should be managed properly to detect and remove viruses, worms and adware from the computer system. Many new-viruses are created and spread continuously. The antivirus software must be updated regularly in order to protect the computer properly.

How the computer can be saved from Q. infected email viruses?

Ans: The unknown emails should not be opened to protect the computer from email viruses.

MCQs

- Collection of millions of computer 1. interlinked to each other is called:
 - (b)√ Internet Interlink (a)
 - Collection (d) Group (c)
- What is the domain name in the 2. following address? name@Server.com
 - (b)√ server.com (a) com
 - (d) server (c) name
- Who owns the Internet? 3.
 - U.S. Government (a)
 - Pakistan Telecommunications (b)
 - United Nations (c)
 - (d) None of these
- 4. Computers in internet are connected through:
 - Fiber-optics cables · (a)
 - Telephone lines (b)
 - Satellite (c)

- (d) \checkmark All of the above
- Software used to connect a PC and the 5. server of ISP is called:
 - Communication software (a)
 - (b) ✓ Dialup software
 - Modem software (c)
 - ISP's link (d)
- What is the protocol in the URI 6. "http://www,Microsoft.com"?
 - (b)√ http www (a)
 - Microsoft (d) com (c)
- Software used to access the Internet is 7. called:

(a)√ Browser (b) Packaged

- Spreadsheet (c)
- HTIP (d)
- A set of documents or web pages 8. stored on computes around the world is called:
 - (b)√ Web Internet (a)
 - FTP (d) LAN (c)
- Web pages are connected to one 9. another using:
 - HTTP (a)√ Hyperlinks (b)
 - Multimedia Interlink (d) (c)
- A collection of related web pages is 10. called:
 - (b)√ Web site Web-link (a)
 - Linking (d) (c) Internet
- URL stands for: 11.
 - Universal Research Limit (a)
 - United Russian Language (b)
 - Universal Resource Locator (c)
 - (d) ✓ Uniform Resource Locator
- E-mail stands for: 12.
 - Electric-mail (a)
 - (b)√ Electronic-mail
 - Elective-mail (c)
 - Elaborated-mail (d)
- The format of an email address is: 13.
 - name#server.com (a)
 - (b) name&server.com.
 - (c)√ name@server.com
 - name\$server.com (d)

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Computer - MCQS	405
symbol that separates parts on an e-	23. Shortcut to refrect 495
mail address is.	(a) E2
(a) \$ (b) #	(0) \mathbf{F}'
(c)√ @ (d) ^	(c) F1 (d)√ F5
15. FTP stands for:	
(a) ✓ File Transfer Protocol	27 27 29
(b) Finis Tele Program	
(c) Flnd1ng Tele Path	
(d) Failed Transmission Pole	For further you di
16. Which of the following is an example	For further reading:
of FTP?	
(a) Personal (b) Web server	 Pakistan Studies – MCQs
(c) SQL (d) \checkmark Cute-FTP	♦ Islamic Studies – MCQs
17. A computer used to store Information	♦ English General – MCQs
for users on the internet is called:	ment waters of the second second second second
(a)√ Web Server	 Computer Science – MCQs
(b) Web Client	 Encyclopedia General Knowledge
(c) Web application	MCQs
(d) Domain name	
. ,	27 27 23
, , , , , , , , , , , , , , , , , , , ,	2 4 2
(a) Browser (b) Server	
(c) Domain Name	
(d) ✓ Computer file	
19. FTP Facility is used to:	
(a) Transfer Protocol	
(b) ✓ Transfer File	by the state
(c) Connect to Internet	Sille Tepar
(d) Self-check computer	Constant allion
20. Services on the internet include:	bill are Materia
(a) World Wide Web	State Constant and the second state of the sec
(b) FTP	× by Clip Sto
(c) Email (d) \checkmark All of these	the out hising
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(b) ✓ Downloading	Thair Connord
(c) Transferring	Control Par
(d) None of these	
22. (d) None of these	No. And
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(a) Downloading (b) Down Solician	
(c)√ Uploading (d) Pasting	
(d) Pasting	
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