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PPSC Lecturer **Computer**

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(1) AX register is also known as:

- (a) Accumulator
- (b) Collector

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- (c) Distributor
- (d) Counter
- (e) None of these

(2) In the Base + Offset addressing, Offset address is also known as:

- (a) Physical Address
- (b) Logical Address
- (c) Actual Address
- (d) Instruction Address
- (e) None of these

(3) The technique for allowing a unit to check the status of another independently function unit is known as?

- (a) Interrupt
- (b) System call
- (c) Polling
- (d) Trape
- (e) None of these

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(4) The method for storing data temporarily such that the input-output of the same job is overlapped with its own processing, is known as:

- (a) Spooling
- (b) Contention
- (c) I/O wait
- (d) Buffering
- (e) None of these

(5) The DMA that uses Busses when CPU is not using them is termed as:

- (a) Shared DMA
- (b) Cycle Stealing
- (c) Channel
- (d) Transparent DMA
- (e) None of these

(6) _____ Scheduler deals with the decision as to whether to admit another new job to the system.

- (a) High Level
- (b) Medium Level
- (c) Low Level

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- (d) Short term
- (e) None of these

7) When the process is in the states of Blocked Suspended or Ready Suspended, its relevant data is

stored in:

- (a) Main Memory
- (b) Hard Disk
- (c) Magnetic Tape
- (d) Buffer
- (e) None of these

(8) Priority, $P = (\text{Time Waiting} + \text{Run Time}) / \text{Run Time}$ is used to calculate priority in _____ scheduling algorithm:

- (a) Shortest Job First
- (b) Priority Scheduling
- (c) Longest Wait First
- (d) Highest Response Ratio Next
- (e) None of these

(9) HDLC Protocol stands for:

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- (a) High-Level Data Link Control
- (b) High Level Development Protocol
- (c) Huge Level Data Link Control
- (d) High Development Level Control
- (e) None of these

(10) _____ is the generic name for a set of standards issued by the International Communications Standards Body CCITT, designed to support Message Handling Systems; i.e. Electronic Mail.

- (a) TCP/IP
- (b) ISDN
- (c) X.400
- (d) X.25
- (e) None of these

(11) _____ layer is responsible for the transfer of a packet of data along one link in the network. It organizes data into frames and detects errors in transmission.

- (a) Physical Layer
- (b) Data Link Layer
- (c) Network Layer

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(d) Transport Layer

(e) None of these

(12) Encryption is the conversion of data in some intelligible format into an unintelligible format called _____ to prevent the data from being understood if read by an unauthorized party.

(a) Clear Text

(b) Encrypted Text

(c) Cipher Text

(d) Coded Text

(e) None of these

(13) Binary search requires about _____ comparisons with an initial list of 1,000,000 elements.

(a) 10

(b) 20

(c) 35

(d) 100

(e) None of these

(14) A _____ header list is a header list where the last node contains the null pointer.

(a) Grounded

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- (b) Circular
- (c) One way
- (d) Rooted
- (e) None of these

(15) _____ are small applications that are accessed on an internet server, transported over the internet, automatically installed and run as part of a web document.

- (a) Applets
- (b) Java Bean
- (c) Sockets
- (d) Java Component
- (e) None of these

(16) AWT stands for:

- (a) Abstract Window Technique
- (b) Abstract Window Toolkit
- (c) Actual Window Technique
- (d) Added Window Toolkit
- (e) None of these

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17) GIF images can have only upto _____ colors.

- (a) 128
- (b) 256
- (c) 512
- (d) 1024
- (e) None of these

(18) _____ is stored on a client and contains state information of the website visited.

- (a) Cookies
- (b) Servlet
- (c) History
- (d) Resident Page
- (e) None of these

(19) In software Engineering KPA denotes.

- (a) Key Process Audit
- (b) Key Process Area
- (c) Key Process Analysis
- (d) Key Problem Area
- (e) None of these

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(20) The _____ Process Model defines a series of events that will trigger transitions from state to state for each of software engineering activities.

- (a) Spiral
- (b) Operational
- (c) RAD
- (d) Concurrent Development
- (e) None of these

21. Which of the following best describes "virtual memory?"

- (a) A portion of the hard disk considered as RAM
- (b) Extended memory on the secondary storage that is used whenever physical memory is full
- (c) The abstraction of separating logical memory—memory as seen by the process—from physical memory—memory as seen by the processor
- (d) It is the page file in Windows folder
- (e) None of these

22. The 'cmp' instruction modifies the:

- (a) Instruction register
- (b) Flags register
- (c) Segment register
- (d) None of these

23. Consider the following page reference string: 1, 2, 3, 4, 2, 1, 5, 6, 2, 1, 2, 3, 7, 6, 3, 2, 1 Assuming there

are 4 page frames available and that all frames are initially empty, what is the total number of page

faults that would occur for the page reference string above if the least-recently-used (LRU) replacement policy is used?

(a)6 (b)9 (c)10 (d)11 (e)None of these

24. The Banker's algorithm is used to _____.

(a)Rectify deadlock (b)Detect deadlock (c)Prevent deadlock

(d)Avoid deadlock (e)None of these

25. The necessary conditions needed before deadlock can occur are _____.

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- (a) No Mutual Exclusion, Hold and wait, Preemption, Circular Wait
- (b) Mutual Exclusion, No Hold and wait, Preemption, Circular Wait
- (c) Mutual Exclusion, Hold and wait, No Preemption, Circular Wait
- (d) Mutual Exclusion, Hold and wait, Preemption, No Circular Wait
- (e) None of these

26. Difference between data link layer and transport layer error detection is that:

- (a) Data link detects transmission errors while transport layer detects segmentation faults
- (b) Data link detects node-to-node errors while transport layer detects end-to-end errors
- (c) Data link detects end-to-end errors while transport layer detects node-to-node errors
- (d) Data link detects segmentation errors while transport layer detects bit error
- (e) None of these

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27. Phase shift keying (PSK.) method is used to modulate digital signals at 9600 bps using 16 levels. The

line signals speed (i.e. modulation rate) will be:

- (a) 1200 bands (b) 2400 bands (c) 4800 bands (d) 9600 bands (e) None of these

28. Exception handling is a powerful technique that separates error-handling code from _____ code.

- (a) Buggy (b) Faulty (c) Normal (d) Exceptional (e) None of these

29. When a subroutine is called, the address of the instruction following the CALL instructions stored in/on the:

- (a) Stack pointer (b) Accumulator (c) Program counter (d) Stack (e) None of these

30. Binary tree "preorder" traversal is defined recursively as follows:

- (a) Traverse left subtree, visit the root, traverse right subtree
- (b) Traverse right subtree, visit the root, traverse left subtree

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(c) Visit the root, traverse left subtree, traverse right subtree

(d) Traverse left subtree, traverse right subtree, visit the root
(e) None of these

31. The advantages of creating a prototype are:

(a) It allows developers to experiment with number of different design options

(b) It can serve as means of communication between developers and customers

(c) It is better than water fall model
(d) Both (a) and (b)
(e) None of these

32. Choose the correct statement.

(a) Testing can show the presence of bugs but never their absence

(b) Testing can always find all the bugs

(c) Testing can always be exhaustive

(d) If we test enough then we can find all of the bugs

(e) None of these

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33. Which of the following operations need the participating relations to be union compatible?

- (a) UNION
- (b) INTERSECTION
- (c) DIFFERENCE
- (d) All of these
- (e) None of these

34. The language used in application programs to request data from the DBMS is referred to as the:

- (a) DML
- (b) DDL
- (c) VDL
- (d) SDL
- (e) None of these

35. What is the correct XHTML for a paragraph?

- (a)
- (b)
- (c)
- (d)
- (e) None of these

36. Which of the following HTML form method is suitable when you need to send larger form submissions?

- (a) Get
- (b) Post
- (c) Both Get and Post
- (d) Ajax
- (e) None of these

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37. (2,4) is a point on a circle that has center at the origin. Which of the following points are also on circle?

(a) (2,-4) (b) (-2,4) (c) (4,-2) (d) All of above (e) None of these

38. In Bresenham's algorithm, while generating a circle, it is easy to generate?

- (a) One octant first and other by successive reflection
- (b) One octant first and other by successive rotation
- (c) One octant first and other by successive translation
- (d) All octants (e) None of these

(39) Object (also called _____) is a common data type that includes photograph, audio, video, or a document created in other applications.

- (a) Number (b) BLOB (c) Integer (d) Binary (e) None of these

(40) In a database, a(n) _____ is a group of related fields.

- (a) Table (b) Key (c) Record (d) Primary Field (e) None of these

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(41) In a database, a(n) _____ field is a field that uniquely identifies each record in a file.

- (a) Main (b) Identifying (c) Master (d) Key (e) None of these

(42) If the lowest annual fee at a discount warehouse is Rs.2025 and the highest is Rs. 5550, a(n) _____

on the Annual Fee field ensures it is a value between Rs. 2025 and Rs. 5550.

- (a) Range Check (b) Completeness Check (c) consistency check

- (d) alphabetic/numeric check (e) None of these

(43) A DBMS uses the _____ to perform validation checks.

- (a) Data Server (b) data mart (c) data warehouse (d) data dictionary

- (e) None of these

(44) _____ is a network technology that defines how messages are routed from one end of a

network to the other, ensuring the data arrives correctly by dividing it into packets.

- (a) HTML (b) XML (c) HTTP (d) TCP/IP (e) None of these

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(45) When a computer sends data over the Internet, the data is divided into small pieces, or _____.

- (a) Bundles
- (b) Packets
- (c) Slices
- (d) Baskets
- (e) None of these

47) The amount of data, instructions, and information that can travel over a communications channel

sometimes is called the _____.

- (a) Broadband
- (b) Baseband
- (c) Latency
- (d) Bandwidth
- (e) None of these

(48) Fiber-optic cables have all of the following advantages over cables that use wire except _____.

- (a) lower costs and easier installation and modification
- (b) faster data transmission and smaller size
- (c) less susceptible to noise from other devices
- (d) better security for signals during transmission
- (e) None of these

(49) A _____ is a network that connects computers and devices in a limited geographical area,

such as a home, school computer laboratory, or office building.

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(a) local area network (LAN) (b) metropolitan area network (MAN)

(c) wide area network (WAN) (d) variable area network (VAN) (e) None of these

(50) With _____ memory, the operating system allocates a portion of a storage medium, usually the

hard disk, to function as additional RAM.

(a) Virtual (b) Performance (c) Device (d) Managed (e) None of these

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