TCET 2026 Test Series:

Questions:

Technical $Q.1) \ \mbox{What is a characteristic of a singly linked list?}$ [A] Only forward traversal [B] Forward and backward traversal [C] Circular traversal [D] None of the above Q.2) Which of the following is true about a circular linked list? [A] Has no end [B] Has no beginning [C] All nodes connect back to head [D] Has no cycle Q.3) Which data structure is used for implementing undo functionality in applications? [A] Queue [B] Stack [C] Linked List [D] Graph Q.4) What is the main advantage of a linked list over an array? [A] Fixed size [B] Dynamic size [C] Easy access [D] Faster indexing Q.5) In a doubly linked list, how many pointers does each node have? [A] 1 [B] 2 [C] 3 [D] 4 Q.6) Which traversal method processes the root node before its children? [A] Pre-order

[B] In-order

[C] Post-order

[D] Breadth-first
Q.7) What type of binary tree has all levels completely filled?
[A] Full Binary Tree
[B] Binary Search Tree
[C] Complete Binary Tree
[D] AVL Tree
Q.8) Which tree traversal uses a stack data structure?
[A] In-order
[B] Breadth-first
[C] Post-order
[D] Heap Sort
Q.9) What is the height of a tree with only one node?
[A] 0
[B] 1
[C] 2
[D] 3
Q.10) What is the time complexity of searching in a balanced binary search tree?
[A] O(log n)
[B] O(n^2)
[C] O (1)
[D] O(n log n)
Q.11) Which data structure is commonly used to represent a graph?
[A] Queue
[B] Stack
[C] List
[D] Array
Q.12) In which graph traversal is a queue typically used?
[A] Depth-first search
[B] Breadth-first search
[C] Dijkstra's
[D] Kruskal's
Q.13) What is a spanning tree of a graph?

[A] A subgraph
[B] A cycle
[C] A subgraph with no cycles
[D] A graph with cycles
Q.14) Which algorithm finds the shortest path in a weighted graph?
[A] Dijkstra's
[B] Prim's
[C] Kruskal's
[D] Bellman-Ford
Q.15) Which of the following is a property of a connected graph?
[A] No cycles
[B] Connected edges
[C] At least one edge
[D] No isolated nodes
Q.16) Which searching algorithm works on sorted arrays only?
[A] Binary Search
[B] Linear Search
[C] Jump Search
[D] Exponential Search
Q.17) What is the best-case time complexity of linear search?
[A] O(1)
[B] O(n)
[C] O(log n)
[D] O(n log n)
Q.18) Which search algorithm uses a divide-and-conquer approach?
[A] Binary Search
[B] Linear Search
[C] Jump Search
[D] Exponential Search
Q.19) What is the worst-case time complexity of binary search?
[A] O(log n)
[B] O(n^2)
[C] O(1)

[D] O(n log n)
Q.20) Which algorithm is most efficient for searching in a sorted linked list?
[A] Binary Search
[B] Linear Search
[C] Jump Search
[D] Exponential Search
Q.21) Which sorting algorithm has the worst-case time complexity of O(n^2)?
[A] Bubble Sort
[B] Selection Sort
[C] Merge Sort
[D] Heap Sort
Q.22) What is the time complexity of merge sort in the worst case?
[A] O(n log n)
[B] O(n^2)
[C] O(n)
[D] O(1)
Q.23) Which sorting algorithm uses a pivot element?
[A] Quick Sort
[B] Heap Sort
[C] Radix Sort
[D] Insertion Sort
Q.24) Which algorithm is stable and uses the divide-and-conquer method?
[A] Merge Sort
[B] Quick Sort
[C] Heap Sort
[D] Bubble Sort
Q.25) Which of these sorting algorithms is non-comparison based?
[A] Insertion Sort
[B] Radix Sort
[C] Merge Sort
[D] Shell Sort
Q.26) Which SQL keyword is used to retrieve unique records?

[A] SELECT
[B] DISTINCT
[C] ORDER BY
[D] LIMIT
Q.27) What does the SQL command 'DELETE' do?
[A] Deletes table
[B] Deletes rows
[C] Deletes columns
[D] Deletes database
Q.28) Which SQL constraint is used to ensure all values in a column are different?
[A] PRIMARY KEY
[B] FOREIGN KEY
[C] NOT NULL
[D] DEFAULT
Q.29) What does 'JOIN' in SQL do?
[A] Combines tables
[B] Deletes rows
[C] Filters data
[D] Creates a table
Q.30) What is the purpose of the 'GROUP BY' clause in SQL?
[A] Filter rows
[B] Group values
[C] Sorts data
[D] Aggregate data
Q.31) Which of the following manages hardware and software resources in a computer system?
[A] Kernel
[B] Shell
[C] Scheduler
[D] BIOS
Q.32) What is a deadlock in operating systems?
[A] Resource allocation
[B] Deadlock prevention
[C] Infinite loop

[D] Resource deadlock
Q.33) Which scheduling algorithm is preemptive by nature?
[A] FIFO
[B] Round Robin
[C] Shortest Job First
[D] First Come First Serve
Q.34) What is the primary purpose of a process scheduler in an OS?
[A] Manage files
[B] Control tasks
[C] Execute processes
[D] Allocate memory
Q.35) Which memory management technique divides memory into fixed-size blocks?
[A] Paging
[B] Segmentation
[C] Fragmentation
[D] Compaction
Q.36) What does TCP stand for in networking?
[A] Transmission Control Protocol
[B] Transport Control Protocol
[C] Text Control Protocol
[D] Transfer Control Protocol
Q.37) Which protocol is used for secure communication over the internet?
[B] HTTP
[C] FTP
[D] SSH
Q.38) What is the main purpose of an IP address?
[A] To identify devices
[B] To establish connections
[C] To encrypt data
[C] To encrypt data

[A] Dynamic Naming Service
[B] Domain Name System
[C] Data Network Service
[D] Directory Naming Service
Q.40) Which layer of the OSI model handles routing of data packets?
[A] Application Layer
[B] Network Layer
[C] Session Layer
[D] Data Link Layer
Q.41) Which data structure can be used to detect cycles in a graph?
[A] Stack
[B] Queue
[C] Deque
[D] Priority Queue
Q.42) What type of tree has nodes with at most two children?
[A] Binary Tree
[B] AVL Tree
[C] Trie
[D] Red-Black Tree
Q.43) What is the space complexity of a depth-first search on a graph?
[A] O(V + E)
[B] O(n)
[C] O(log n)
[D] O(n^2)
Q.44) Which sorting algorithm is the fastest for small datasets?
[A] Insertion Sort
[B] Bubble Sort
[C] Quick Sort
[D] Selection Sort
Q.45) In SQL, which function returns the number of rows in a table?
[A] SUM()
[B] COUNT()
[C] AVG()

[D] MAX()
Q.46) Which OS component handles user interactions and I/O requests?
[A] Shell
[B] Scheduler
[C] Kernel
[D] BIOS
Q.47) What does HTTP stand for in web communication?
[A] Hypertext Transfer Protocol
B] Hyper Text Transfer Protocol
[C] Secure Hyper Transfer Protocol
[D] Hyperlink Transfer Protocol
Q.48) What is the time complexity of bubble sort in the best case?
[A] O(n)
[B] O(n log n)
[C] O(log n)
[D] O(1)
Q.49) Which data structure supports both LIFO and FIFO operations?
[A] Deque
[B] Queue
[C] Stack
[D] Priority Queue
Q.50) Which of these SQL commands is used to create a table?
[A] SELECT INTO
B] CREATE
[C] ALTER
[D] DROP
TCET 2026 Test Series:

Answers:

Technical

Q.1)A	Q.2)A	Q.3)A	Q.4)A (Q.5)A Q.	6)A Q.7)A	Q.8)A	Q.9)A	Q.10)A	Q.11)A	Q.12)A	Q.13)A	Q.14)A	Q.15)A
Q.16)A	Q.17)A	Q.18)A	A Q.19)	A Q.20)A	Q.21)A	Q.22)A	Q.23)A	Q.24)A	Q.25)A	Q.26)A	Q.27)A	Q.28)A	Q.29)A
Q.30)A	Q.31)A	Q.32)A	A Q.33)	A Q.34)A	Q.35)A	Q.36)A	Q.37)A	Q.38)A	Q.39)A	Q.40)A	Q.41)A	Q.42)A	Q.43)A
Q.44)A	Q.45)A	Q.46)A	A Q.47)A	A Q.48)A	Q.49)A	Q.50)A							

TCET 2026 Test Series:

Explanations: Technical Q.1) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.2) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.3) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.4) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.5) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.6) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.7) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.8) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.9) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.10) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.11) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.12) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.13) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.14) Explanation: Multiple Choice Type Question: ** Explanation not Available ** Q.15) Explanation: Multiple Choice Type Question: ** Explanation not Available **

Q.16) Explanation:

Multiple Choice Type Question: ** Explanation not Available **

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TCET 2026 Test Series:

Answers And Explanations:

Technical

Q.1) A

Explanation:

Multiple Choice Type Question: ** Explanation not Available **

Q.2) A

Explanation:

Multiple Choice Type Question: ** Explanation not Available **

Q.3) A

Explanation:

Multiple Choice Type Question: ** Explanation not Available **
Q.4) A
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