

TCET 2026 Test Series:

Questions:

Technical

Q.1) Which of the following is true about a stack?

[A] LIFO (Last In, First Out)

[B] FIFO (First In, First Out)

[C] It allows random access

[D] It is a linear structure

Q.2) What operation is used to add an element to a stack?

[A] Push

[B] Pop

[C] Peek

[D] Enqueue

Q.3) What operation is used to remove an element from a stack?

[A] Push

[B] Pop

[C] Peek

[D] Dequeue

Q.4) In which situation is a stack particularly useful?

[A] Undo operations in a text editor

[B] Searching elements in a list

[C] Storing elements in a tree

[D] Sorting elements

Q.5) What is the result of popping an element from an empty stack?

[A] Stack underflow

[B] Stack overflow

[C] No operation

[D] Null value

Q.6) Which of the following is a real-world example of a stack?

[A] All of the above

[B] Print queue

[C] Browser history

[D] Undo functionality in text editors

Q.7) Which data structure is used in function calls?

[A] Queue

[B] Stack

[C] Linked list

[D] Binary tree

Q.8) What is the primary advantage of using a stack?

[A] Quick access to the most recently added element

[B] Quick access to the least recently added element

[C] Efficient search operations

[D] Efficient sorting

Q.9) Which algorithm is implemented using a stack?

[A] Depth-First Search

[B] Breadth-First Search

[C] Binary Search

[D] Quick Sort

Q.10) What happens if you try to pop from an empty stack?

[A] Stack underflow

[B] Stack overflow

[C] The operation is ignored

[D] An exception is thrown

Q.11) What is the space complexity of a stack?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.12) Which of the following operations is not performed in a stack?

[A] Peek

[B] Pop

[C] Push

[D] Search

Q.13) How do you check if a stack is full?

[A] Check if the top pointer is equal to the maximum size

[B] Check if the stack is empty

[C] Check if the bottom pointer is at the base

[D] It can never be full

Q.14) Which data structure is used in depth-first traversal of a graph?

[A] Queue

[B] Stack

[C] Linked list

[D] Hash table

Q.15) What does the peek operation do in a stack?

[A] Removes the top element

[B] Returns the top element without removing it

[C] Adds an element to the stack

[D] Checks if the stack is empty

Q.16) Which of the following is true about a stack-based memory allocation?

[A] Memory is allocated in a last-in-first-out order

[B] Memory is allocated in a first-in-first-out order

[C] Memory is dynamically allocated

[D] Memory is permanently allocated

Q.17) What is the time complexity of the push and pop operations in a stack?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.18) Which of the following is true about a queue?

[A] FIFO (First In, First Out)

[B] LIFO (Last In, First Out)

[C] Elements are inserted randomly

[D] None of the above

Q.19) What operation is used to add an element to a queue?

[A] Enqueue

[B] Push

[C] Pop

[D] Peek

Q.20) What operation is used to remove an element from a queue?

[A] Enqueue

[B] Push

[C] Pop

[D] Dequeue

Q.21) In which situation is a queue particularly useful?

[A] Scheduling tasks in a processor

[B] Undo functionality

[C] Tree traversal

[D] Sorting elements

Q.22) What is the result of dequeuing an element from an empty queue?

[A] Queue underflow

[B] Queue overflow

[C] No operation

[D] Null value

Q.23) Which of the following is a real-world example of a queue?

[A] Printer queue

[B] Undo functionality in text editors

[C] Browser history

[D] All of the above

Q.24) Which data structure is used in breadth-first search?

[A] Stack

[B] Queue

[C] Linked list

[D] Binary tree

Q.25) What is the primary advantage of using a queue?

[A] Quick access to the least recently added element

[B] Quick access to the most recently added element

[C] Efficient search operations

[D] Efficient sorting

Q.26) Which algorithm is implemented using a queue?

[A] Depth-First Search

[B] Breadth-First Search

[C] Binary Search

[D] Quick Sort

Q.27) What happens if you try to dequeue from an empty queue?

[A] Queue underflow

[B] Queue overflow

[C] The operation is ignored

[D] An exception is thrown

Q.28) What is the space complexity of a queue?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.29) Which of the following operations is not performed in a queue?

[A] Peek

[B] Dequeue

[C] Enqueue

[D] Search

Q.30) How do you check if a queue is full?

[A] Check if the rear pointer is equal to the maximum size

[B] Check if the front pointer is at the base

[C] Check if the queue is empty

[D] It can never be full

Q.31) Which data structure is used in breadth-first traversal of a graph?

[A] Queue

[B] Stack

[C] Linked list

[D] Hash table

Q.32) What is the time complexity of enqueue and dequeue operations in a queue?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.33) What is the purpose of a circular queue?

[A] To overcome the limitation of fixed-size queue

[B] To implement priority queue

[C] To improve searching

[D] To implement stack

Q.34) Which of the following is an application of a queue?

[A] Job scheduling in operating systems

[B] Function call stack

[C] Recursive algorithms

[D] Matrix multiplication

Q.35) What is the condition for queue overflow?

[A] When the rear pointer exceeds the maximum size

[B] When the front pointer exceeds the maximum size

[C] When both front and rear pointers are at maximum

[D] When the queue is empty

Q.36) Which data structure is used in implementing a queue in most programming languages?

[A] Array

[B] Linked list

[C] Hash table

[D] Binary tree

Q.37) What is a priority queue?

[A] A queue in which elements are dequeued based on their priority

[B] A queue that allows random access

[C] A queue that allows sorting of elements

[D] A queue that is implemented using an array

Q.38) What is a double-ended queue (deque)?

[A] A queue where elements can be inserted or removed from both ends

[B] A queue with fixed size

[C] A queue where elements are sorted

[D] A queue implemented using arrays

Q.39) Which of the following is true about stack memory?

[A] Stack memory is allocated dynamically

[B] Stack memory is managed by the operating system

[C] Stack memory is used for function calls and local variables

[D] Stack memory is allocated in the heap

Q.40) Which operation can be performed on a stack to check the value of the top element without removing it?

[A] Peek

[B] Push

[C] Pop

[D] Enqueue

Q.41) What is the maximum number of elements that can be stored in a stack of size 'n'?

[A] $n+1$

[B] n

[C] $2n$

[D] $n/2$

Q.42) In a stack, what happens when an element is pushed beyond the allocated memory?

[A] Stack overflow

[B] Stack underflow

[C] Queue overflow

[D] Memory leak

Q.43) Which of the following is an application of stack?

[A] Expression evaluation

[B] File handling

[C] Matrix multiplication

[D] Sorting

Q.44) What is the result of trying to pop an element from a stack when it is empty?

[A] Stack underflow

[B] Stack overflow

[C] No operation

[D] Null value

Q.45) Which of the following is an example of a stack?

[A] Browser's back button

[B] Print job queue

[C] Customer service call queue

[D] All of the above

Q.46) What happens when the stack pointer exceeds its limit?

[A] Stack overflow

[B] Stack underflow

[C] Memory leak

[D] Null pointer exception

Q.47) Which of the following operations is used to remove an element from the stack?

[A] Pop

[B] Push

[C] Peek

[D] Dequeue

Q.48) What is the time complexity for push and pop operations in a stack?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.49) In a queue, which pointer is used to remove an element?

[A] Front pointer

[B] Rear pointer

[C] Top pointer

[D] Bottom pointer

Q.50) Which of the following is a characteristic of a queue?

[A] FIFO (First In, First Out)

[B] LIFO (Last In, First Out)

[C] Elements can be inserted and removed from both ends

[D] Elements can only be inserted

TCET 2026 Test Series:

Answers:

Technical

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

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Q.6) Explanation:

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

Q.7) Explanation:

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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 **

Q.17) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.18) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.19) Explanation:
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Q.20) Explanation:
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Q.21) Explanation:
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Q.22) Explanation:
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Q.23) Explanation:
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Q.24) Explanation:
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Q.25) Explanation:
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Q.26) Explanation:
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Q.27) Explanation:
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Q.28) Explanation:
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Q.29) Explanation:
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Q.30) Explanation:
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Q.31) Explanation:
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Q.32) Explanation:
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Q.36) Explanation:
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Q.37) Explanation:
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Q.38) Explanation:
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Q.39) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.40) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.41) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.42) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.43) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

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

Q.45) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.46) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.47) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.48) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.49) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.50) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

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) B
Explanation:

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

Q.4) A

Explanation:

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

Q.5) A

Explanation:

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

Q.6) D

Explanation:

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

Q.7) B

Explanation:

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

Q.8) A

Explanation:

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

Q.9) A

Explanation:

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

Q.10) A

Explanation:

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

Q.11) B

Explanation:

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

Q.12) D

Explanation:

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

Q.13) A

Explanation:

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

Q.14) B

Explanation:

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

Q.15) B

Explanation:

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

Q.16) A

Explanation:

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

Q.17) A

Explanation:

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

Q.18) A

Explanation:

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

Q.19) A

Explanation:

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

Q.20) D
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.21) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.22) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.23) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.24) B
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.25) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.26) B
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.27) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.28) B
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.29) D
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.30) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.31) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.32) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.33) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.34) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.35) A
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.36) B
Explanation:

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

Q.37) A

Explanation:

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

Q.38) A

Explanation:

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

Q.39) C

Explanation:

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

Q.40) A

Explanation:

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

Q.41) B

Explanation:

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

Q.42) A

Explanation:

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

Q.43) A

Explanation:

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

Q.44) A

Explanation:

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

Q.45) A

Explanation:

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

Q.46) A

Explanation:

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

Q.47) A

Explanation:

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

Q.48) A

Explanation:

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

Q.49) A

Explanation:

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

Q.50) A

Explanation:

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