

TCET 2026 Test Series:

Questions:

Technical

Q.1) Which of the following searching algorithms is best suited for an unsorted array?

[A] Linear search

[B] Binary search

[C] Jump search

[D] Interpolation search

Q.2) What is the time complexity of linear search?

[A] $O(1)$

[B] $O(\log n)$

[C] $O(n)$

[D] $O(n^2)$

Q.3) Which of the following is true about binary search?

[A] It works on sorted arrays

[B] It works on unsorted arrays

[C] It always finds the smallest element

[D] It requires a linked list

Q.4) What is the worst-case time complexity of binary search?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.5) Which searching algorithm has the best time complexity for large datasets?

[A] Linear search

[B] Binary search

[C] Jump search

[D] Exponential search

Q.6) Which of the following is an advantage of binary search?

[A] It is faster than linear search for large sorted arrays

[B] It works on unsorted arrays

[C] It is easier to implement

[D] It is less space-efficient

Q.7) Which search algorithm is used in case of a sorted array where elements are uniformly distributed?

[A] Binary search

[B] Interpolation search

[C] Jump search

[D] Exponential search

Q.8) What is the main disadvantage of binary search?

[A] It only works on sorted arrays

[B] It requires too much memory

[C] It is not accurate

[D] It requires $O(n)$ time complexity

Q.9) What is the time complexity of binary search in the best case?

[A] $O(1)$

[B] $O(n)$

[C] $O(\log n)$

[D] $O(n^2)$

Q.10) Which of the following searching algorithms works on a sorted and rotated array?

[A] Linear search

[B] Binary search

[C] Exponential search

[D] Fibonacci search

Q.11) Which of the following searching algorithms is not comparison-based?

[A] Linear search

[B] Binary search

[C] Jump search

[D] Interpolation search

Q.12) Which searching algorithm works by checking the middle element and repeatedly dividing the search interval in half?

[A] Binary search

[B] Linear search

[C] Exponential search

[D] Jump search

Q.13) What is the best-case time complexity of linear search?

[A] $O(1)$

[B] $O(\log n)$

[C] $O(n)$

[D] $O(n^2)$

Q.14) Which search algorithm is used to find the position of an element in an array where elements are sorted?

[A] Binary search

[B] Linear search

[C] Jump search

[D] Exponential search

Q.15) What type of search is performed when the array is not sorted and requires sequential checking?

[A] Binary search

[B] Linear search

[C] Interpolation search

[D] Exponential search

Q.16) Which sorting algorithm works by repeatedly finding the minimum element and placing it at the beginning?

[A] Selection sort

[B] Bubble sort

[C] Insertion sort

[D] Merge sort

Q.17) What is the time complexity of bubble sort in the worst case?

[A] $O(1)$

[B] $O(n)$

[C] $O(n^2)$

[D] $O(\log n)$

Q.18) Which sorting algorithm works by dividing the array into smaller sub-arrays and then merging them?

[A] Selection sort

[B] Merge sort

[C] Quick sort

[D] Insertion sort

Q.19) Which sorting algorithm works by dividing the array into two partitions and recursively sorting them?

[A] Merge sort

[B] Quick sort

[C] Insertion sort

[D] Bubble sort

Q.20) What is the time complexity of quicksort in the best case?

[A] $O(n \log n)$

[B] $O(n)$

[C] $O(n^2)$

[D] $O(\log n)$

Q.21) Which sorting algorithm is generally faster: quicksort or merge sort?

[A] Quicksort

[B] Merge sort

[C] Both are equally fast

[D] None of the above

Q.22) Which of the following sorting algorithms is not comparison-based?

[A] Merge sort

[B] Quick sort

[C] Radix sort

[D] Selection sort

Q.23) What is the worst-case time complexity of quicksort?

[A] $O(n \log n)$

[B] $O(n^2)$

[C] $O(n)$

[D] $O(\log n)$

Q.24) Which sorting algorithm works by swapping adjacent elements if they are in the wrong order?

[A] Bubble sort

[B] Insertion sort

[C] Selection sort

[D] Merge sort

Q.25) Which sorting algorithm is known for being the simplest to implement but inefficient for large datasets?

[A] Bubble sort

[B] Quick sort

[C] Merge sort

[D] Insertion sort

Q.26) Which of the following sorting algorithms has the best average-case time complexity?

[A] Bubble sort

[B] Merge sort

[C] Insertion sort

[D] Quick sort

Q.27) Which sorting algorithm has the worst time complexity of $O(n^2)$?

[A] Selection sort

[B] Merge sort

[C] Insertion sort

[D] Quick sort

Q.28) Which of the following sorting algorithms is considered stable?

[A] Quick sort

[B] Merge sort

[C] Selection sort

[D] Heap sort

Q.29) Which sorting algorithm can be implemented with a divide and conquer strategy?

[A] Merge sort

[B] Bubble sort

[C] Selection sort

[D] Insertion sort

Q.30) Which sorting algorithm is best for sorting small datasets?

[A] Insertion sort

[B] Merge sort

[C] Quick sort

[D] Selection sort

Q.31) What is the time complexity of selection sort?

[A] $O(n^2)$

[B] $O(n \log n)$

[C] $O(n)$

[D] $O(\log n)$

Q.32) Which of the following is a characteristic of merge sort?

[A] It is not an in-place algorithm

[B] It is an in-place algorithm

[C] It uses a divide and conquer strategy

[D] Both A and C

Q.33) What is the space complexity of merge sort?

[A] $O(n)$

[B] $O(1)$

[C] $O(n \log n)$

[D] $O(\log n)$

Q.34) Which sorting algorithm is best for sorting large datasets that cannot fit into memory?

[A] Merge sort

[B] Bubble sort

[C] Insertion sort

[D] Heap sort

Q.35) What is the average-case time complexity of bubble sort?

[A] $O(n^2)$

[B] $O(n \log n)$

[C] $O(n)$

[D] $O(n^3)$

Q.36) Which of the following sorting algorithms is known for being efficient with nearly sorted data?

[A] Insertion sort

[B] Merge sort

[C] Quick sort

[D] Selection sort

Q.37) Which sorting algorithm works by comparing elements and swapping them in place?

[A] Selection sort

[B] Insertion sort

[C] Quick sort

[D] Merge sort

Q.38) Which of the following sorting algorithms is not stable?

[A] Quick sort

[B] Merge sort

[C] Insertion sort

[D] Bubble sort

Q.39) Which of the following is an in-place sorting algorithm?

[A] Merge sort

[B] Heap sort

[C] Quick sort

[D] Insertion sort

Q.40) Which sorting algorithm has the worst performance on an already sorted array?

[A] Selection sort

[B] Bubble sort

[C] Merge sort

[D] Insertion sort

Q.41) Which sorting algorithm is faster than selection sort but slower than quicksort?

[A] Bubble sort

[B] Merge sort

[C] Insertion sort

[D] Heap sort

Q.42) Which of the following algorithms is used for sorting numbers that are not in a fixed range?

[A] Counting sort

[B] Radix sort

[C] Bucket sort

[D] Quick sort

Q.43) Which sorting algorithm divides the array into smaller parts and sorts each one individually?

[A] Merge sort

[B] Heap sort

[C] Quick sort

[D] Insertion sort

Q.44) Which of the following sorting algorithms uses the concept of „pivot“?

[A] Bubble sort

[B] Merge sort

[C] Quick sort

[D] Selection sort

Q.45) What is the best sorting algorithm for a small dataset with a nearly sorted array?

[A] Insertion sort

[B] Merge sort

[C] Selection sort

[D] Quick sort

Q.46) Which sorting algorithm works by dividing the list into sublists of fixed sizes and then sorting them?

[A] Counting sort

[B] Bucket sort

[C] Radix sort

[D] Quick sort

Q.47) Which sorting algorithm is best for sorting integers in a fixed range?

[A] Counting sort

[B] Merge sort

[C] Quick sort

[D] Radix sort

Q.48) Which of the following sorting algorithms works by dividing the array into two sub-arrays and sorting them independently?

[A] Merge sort

[B] Quick sort

[C] Heap sort

[D] Selection sort

Q.49) Which search algorithm works by progressively halving the search space?

[A] Binary search

[B] Linear search

[C] Exponential search

[D] Interpolation search

Q.50) Which sorting algorithm is known for being very efficient with large datasets that have a wide range of values?

[A] Counting sort

[B] Radix sort

[C] Bubble sort

[D] Selection sort

TCET 2026 Test Series:

Answers:

Technical

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

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:
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Q.8) Explanation:
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Q.9) Explanation:
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Q.10) Explanation:
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Q.11) Explanation:
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Q.12) Explanation:
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Q.13) Explanation:
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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:
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Q.18) Explanation:
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Q.19) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

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.36) Explanation:
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Q.37) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.38) Explanation:
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Q.39) Explanation:
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Q.40) Explanation:
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Q.41) Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.42) Explanation:
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Q.43) Explanation:
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Q.44) Explanation:
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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) C
Explanation:
Multiple Choice Type Question: ** Explanation not Available **

Q.3) A
Explanation:

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

Q.4) C

Explanation:

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

Q.5) B

Explanation:

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

Q.6) A

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) B

Explanation:

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

Q.11) D

Explanation:

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

Q.12) A

Explanation:

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

Q.13) A

Explanation:

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

Q.14) A

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) C

Explanation:

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

Q.18) B

Explanation:

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

Q.19) B

Explanation:

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

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

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

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

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

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

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

Q.26) D
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) A
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) D
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) A
Explanation:

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

Q.37) B

Explanation:

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

Q.38) A

Explanation:

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

Q.39) D

Explanation:

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

Q.40) B

Explanation:

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

Q.41) D

Explanation:

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

Q.42) B

Explanation:

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

Q.43) A

Explanation:

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

Q.44) C

Explanation:

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

Q.45) A

Explanation:

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

Q.46) C

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) B

Explanation:

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