

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Data Structure

Course Code - BCAC201

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Answer all the questions. Each question carry one mark.

9. 1.The full form of ADT is

Mark only one oval.

- Application Data Type
- Abstract Data Type
- Approved Data Structure
- None of these

10. 2. An array is a

Mark only one oval.

- Multiple Data Structure
- Linear Data Structure
- Non Linear Data Structure
- None of these

11. 3. A stack can be implemented as an

Mark only one oval.

- Array
- Linked List
- Both Array & Linked List
- None of these

12. 4. A Queue can be implemented as an

Mark only one oval.

- An array
- A linked List
- Both array and linked List
- None of these

13. 5. A tree is a _____ data structure.

Mark only one oval.

- Non-Linear
- Linear
- Abstract
- None of these.

14. 6. Sorting can be done only in

Mark only one oval.

- Ascending Order
- Descending Order
- Both ascending and descending order
- None of these

15. 7.What is Node in link list?

Mark only one oval.

- Data Part
- Data + Link
- Link Part
- None of these

16. 8.The time complexity of a quick sort algorithm which makes use of median, found by an $O(n)$ algorithm, as pivot element is

Mark only one oval.

- $O(n^2)$
- $O(n \log \log n)$
- $O(n)$
- $O(n \log n)$

17. 9. Which of the following algorithms has lowest worst case time complexity?

Mark only one oval.

- Insertion sort
- Heap sort
- Selection sort
- Quick sort

18. 10. Which of the following algorithm design technique is used in the quick sort algorithm?

Mark only one oval.

- Dynamic programming
- Backtracking
- Greedy method
- Divide-and-conquer

19. 11. The data structure required to evaluate a postfix expression is

Mark only one oval.

- Queue
- Stack
- Array
- linked-list

20. 12. Consider the following operation performed on a stack of size 5. Push(1); Pop(); Push(2); Push(3); Pop(); Push(4); Pop(); Pop(); Push(5); After the completion of all operation, the no of element present on stack areble to understand others lead to

Mark only one oval.

- 1
- 2
- 3
- 4

21. 13. Which is the pointer associated with the stack?

Mark only one oval.

- FIRST
- FRONT
- TOP
- REAR

22. 14. Which of the following linked list below have the last node of the list pointing to the first node?

Mark only one oval.

- circular doubly linked list
- circular linked list
- circular singly linked list
- doubly linked list

23. 15. Which search technique is better?

Mark only one oval.

- Linear
- Binary
- all of these
- None of these

24. 16. A binary search tree is generated by inserting in order the following integers: 50, 15, 62, 5, 20, 58, 91, 3, 8, 37, 60, 24 The number of the node in the left sub-tree and right sub-tree of the root, respectively, is

Mark only one oval.

- (4, 7)
- (7, 4)
- (8, 3)
- (3, 8)

25. 17. What is the value of the postfix expression $6\ 3\ 2\ 4\ +\ -\ *?$

Mark only one oval.

- Something between -15 and -100
- Something between 5 and -5
- Something between -5 and -15
- Something between 5 and 15

26. 18. Which Data Structure is used to perform Recursion?

Mark only one oval.

- Queue
- Stack
- Tree
- Linked list

27. 19. The complexity of Bubble sort algorithm is

Mark only one oval.

- $O(n)$
- $O(\log n)$
- $O(n^2)$
- $O(n \log n)$

28. 20. Stack is also called as

Mark only one oval.

- Last In First Out
- First In Last Out
- Last in Last Out
- None of these

29. 21. To obtain a prefix expression, which of the tree traversals is used?

Mark only one oval.

- Level-order traversal
- Pre-order traversal
- Post-order traversa
- In-order traversal

30. 22. The number of edges from the node to the deepest leaf is called _____ of the tree.

Mark only one oval.

- Height
- Depth
- Length
- Width

31. 23. The retrieval of items in a stack is _____ operation.

Mark only one oval.

- Push
- Pop
- Retrieval
- Access

32. 24. A complete binary tree of level 5 has how many nodes?

Mark only one oval.

15

25

63

30

33. 25. What is the space complexity of a linear queue having n elements?

Mark only one oval.

$O(n)$

$O(n \log n)$

$O(\log n)$

$O(1)$

34. 26. A _____ is a data structure that organizes data similar to a line in the supermarket, where the first one in line is the first one out.

Mark only one oval.

Stacks linked list

Queue linked list

Both of them

None of these

35. 27. Which type of traversal of binary search tree outputs the value in sorted order?

Mark only one oval.

- Pre-order
- In-order
- Post-order
- None of these

36. 28. Before inserting into the stack one must check the condition _____

Mark only one oval.

- Overflow
- Underflow
- Maximum elements
- Existing elements

37. 29. What is a complete binary tree?

Mark only one oval.

- Each node has exactly zero or two children
- A binary tree, which is completely filled, with the possible exception of the bottom level, which is filled from right to left
- A binary tree, which is completely filled, with the possible exception of the bottom level, which is filled from left to right
- A tree in which all nodes have degree 2

38. 30. If the elements "A", "B", "C" and "D" are placed in a queue and are deleted one at a time, in what order will they be removed?

Mark only one oval.

ABCD

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