Data Structures Class 12 MCQ

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1. A data structure is a way of __.

a. Organizing data

b. Storing data c.

Accessing data d.

All of the above

Answer ←

d. All of the above

2. Which of the following popular data structures used in programming language.

a. Stack

b. Queue

c. Both a) and b)

d. None of the above

Answer ←

c. Both a) and b)

3. Which of the following data strucutre operates on a Last-In, First-Out (LIFO) principle.

a. Stack

b. Queue

c. Both a) and b)

d. None of the above

Answer ←

a. Stack

4. Which of the following sutable example of stack in real life. a. Pile of clothes in an almirah

b. Bangles worn on wrist

c. Multiple chairs in a vertical pile

d. All of the above

Answer ←

d. All of the above

5. While browsing the web, we move from one web page to another by accessing links between them. In order to go back to the last visited web page, we may use the back button on the browser. This is an example of? a. Stack

b. Queue

c. Both a) and b)

d. None of the above

Answer ←

a. Stack

6. The end from which elements are added or deleted is called __. a. END of the stack

b. TOP of the stack

c. CLOSING of the stack

d. All of the above

Answer ←

b. TOP of the stack

7. Which of the following fundament operation we can perform on the stack?

a. PUSH operation

b. POP operation

c. Both a) and b)

d. None of the above

Answer ←

c. Both a) and b)

8. _ adds a new element at the TOP of the stack. a.

PUSH operation

b. POP operation

c. Both a) and b)

d. None of the above

Answer ←

a. PUSH operation

9. If stack is full and no element can be added is known as __. a.

Full stack

b. Overflow

c. TOP stack

d. None of the above

Answer ←

b. Overflow

10. _ operation is used to remove the top most element of the stack. a.

PUSH operation

b. POP operation

c. Both a) and b)

d. None of the above

Answer ←

b. POP operation

11. If the stack is empty and trying to delete an element is known as __. a.

Overflow

b. Empty stack

c. Underflow

d. All of the above
   Answer ←
   c. Underflow

12. A stack is used to insert and delete elements in __ order. a.

LIFO

b. FILO

c. FIFO

d. None of the above
   Answer ←
   a. LIFO

13. Example of Linear data structrues are _.

a. Stack

b. Queue

c. Both a) and b)

d. None of the above
   Answer ←
   c. Both a) and b)

14. _ data strucutres refer to the lists stored and accessed in a special way, Where LIFO (Last in first out) technique is followed.

a. Stack

b. Queue

c. Linked List

d. None of the above
   Answer ←
   a. Stack

15. What are the different searching algorithms in Data structre. a.

Linear Search

b. Binary Search

c. Both a) and b)

d. None of the above
Answer ←
   c. Both a) and b)

16. Which data structure is mostly used in the recursive algorithm's implementation?

   a. Stack
   b. Queue
   c. Linked List
   d. None of the above
Answer ←
   b. Stack

17. Stacks are __ lists where insertions and deletions take place only at one end.

a. LIFO (Last in First Out)

 b. FIFO (First in First Out)

c. Both a) and b)

d. None of the above
Answer ←
   a. LIFO (Last in First Out)