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MCQs on Data Structure

Sem.-III

1] Data by itself is not useful unless

- A] It is massive
- B] It is processed to obtain information**
- C] It is collected from diverse sources
- D] It is properly stated

2. Which of the following data structure is not linear data structure?

- A) Arrays
- B) Linked lists
- C) Both of the above
- D) None of the above**

3. The disadvantage in using a circular linked list is

- A) It is possible to get into infinite loop.**
- B) Last node points to first node.
- C) Time consuming
- D) Requires more memory space

4. A linear list in which each node has pointers to point to the predecessor and successors nodes is called as ..

- A) Singly Linked List
- B) Circular Linked List
- C) Doubly Linked List**
- D) Linear Linked List

5. A is a linear list in which insertions and deletions are made to from either end of the structure.

- A) circular queue
- B) random of queue
- C) priority
- D) dequeue**

6. In a priority queue, insertion and deletion takes place at

- A) front, rear end
- B) only at rear end
- C) only at front end
- D) any position**

7. Which of the following is an application of stack?

- A) finding factorial
- B) tower of Hanoi**
- C) infix to postfix conversion
- D) all of the above

9. The data structure which is one ended is

- A) queue
- B) stack**
- C) tree
- D) graph

10. A list which displays the relationship of adjacency between elements is said to be

- A) linear**
- B) non linear
- C) linked list
- D) trees

11. A binary tree whose every node has either zero or two children is called

- a. Complete binary tree**
- b. Binary search tree
- c. Extended binary tree
- d. None of above

12. When converting binary tree into extended binary tree, all the original nodes in binary tree are

- a. internal nodes on extended tree
- b. external nodes on extended tree**
- c. vanished on extended tree
- d. None of above

13. An algorithm that calls itself directly or indirectly is known as

- a. Sub algorithm
- b. Recursion**
- c. Polish notation
- d. Traversal algorithm

14. In a Heap tree

- a. Values in a node is greater than every value in left sub tree and smaller than right sub tree
- b. Values in a node is greater than every value in children of it**
- c. Both of above conditions applies
- d. None of above conditions applies

15. A connected graph T without any cycles is called

- a. a tree graph**
- b. free tree
- c. a tree
- d. All of above

16. The in order traversal of tree will yield a sorted listing of elements of tree in

- a. Binary trees
- b. Binary search trees**
- c. Heaps
- d. None of above

17. The application of heap tree is

- a. To Sort the elements in array**
- b. To evaluate the mathematical expression
- c. To search the element in array
- d. None of these

18. The deletion mechanism in the stack is called as

- a) PUSH
- b) POP**
- c) Delete
- d) None of these

19. LIFO mechanism is used in

- a) **Stack** b) Queue c) Array d) linked list

20) The element which is inserted first will be removed last in the

- a) Queue b) Array c) Linked list **d) None of these**