TREE

1.
In which of the tree traversal method root node is always visited first.

A. Inorder
B. Preorder
C. Postorder
D. In all of the above

Answer: B

2.
In which of the tree traversal method elements gets visited in an ascending order.

A. Inorder
B. Preorder
C. Postorder
D. In all of the above

Answer: A

3.
For which of the following tree traversal algorithm do not requires a stack.

A. Inorder
B. Postorder
C. Depth First Search
D. Breadth First Search

Answer: D

4.
Node which is having non-zero degree called as _____.

A. Zero Degree Node
B. Leaf node
C. Root Node
D. Null Node

Answer: B

5.
Binary tree in which all leaf nodes are at same level and has exactly two children is called as _____.

A. Perfect Binary Tree
B. Complete Binary Tree
C. Strictly Binary Tree
D. All of the above

Answer: A

6.
Binary Tree with minimum possible height is called as ___.

A. Shortest Binary Tree
B. Min Height Tree
C. Balanced Binary Search Tree
D. None of the above

Answer: C

7.
In a Binary Search Tree searching operation takes ___time.

A. O(1)
B. O(n)
C. O(log n)
D. O(n log n)

Answer: C

8.
In _____ Binary Search Tree if right link is NULL then it is used to store the addreess of its inorder successor.
A. Skewed
B. Left Skewed
C. Right Skewed
D. Threaded

Answer: D

Graph

9.
Connected graph contains minimum _____ number of edges.

A. V+1
B. V
C. V-1
D. None of the above

Answer: C

10.
Adjacency List representation of a graph can be implemented by using _____.

A. Linked List
B. Array of Linked Lists
C. Linked List of Linked Lists
D. All of the above

Answer: B

11.
Graph in which pairs of vertices are ordered is reffered as
A. Undirected Graph
B. Directed Graph
C. Complete Graph
D. None of the above

Answer: B

12.
Which of the following algorithm is used to find shortest path of all vertices from the given source vertex.

A. Dijsktra's
B. Prim's
C. Kruskal's
D. Bellman Ford

Answer: A

13.
Subgraph of a graph can be formed by removing one or more edges from it in such a way that it remains connected and do not contains a cycle is reffered as _____.

A. Tree
B. Spanning Tree
C. Complete Tree
D. Forest

Answer: B

14.
Which of the following algorithm is used to find Minimum Spanning Tree of a given graph _____

A. Prim's
B. Kruskal's
C. Both A & B
D. None of the above

Answer: C

15.
In a given graph, if all the vertices are adjacent with remaininig all vertices then such a graph is reffered as _____.

A. Simple Graph
B. Complete Graph
C. Adjacent Graph
D. Connected Graph

Answer: B