1.
Complete graph contains _____ no. of edges, if it contains "V" no. of vertices.

A. (V*(V+1))/2
B. (V*(V-1))/2
C. V
D. (V-1)

Answer: B

2.
Graph is said to be connected graph, if any vertex in it is _____ to remaining all the vertices.

A. Adjacent
B. Connected as well as Adjacent
C. Connected
D. All of the above
E. Only C

Answer: D

3.
For a given graph G contains which V no. of vertices and E no. of edges, G1 can be reffered as a subgraph of G only if:

A. G1 contains V no. of vertices and E no. of edges exactly
B. G1 contains V no. of vertices and less than E no. of edges
C. G1 contains V-1 no. of vertices and more than E no. of edges
D. G1 contains V-1 no. of vertices and E no. of edges

Answer: B

4.
Adjacency list representation of a graph can be implemented by using

A. Linked lists of arrays
B. Array of linked lists
C. Linked list of linked lists
D. Array of array

Answer: B

5.
Which of the following traversal method can be applied on a graph data structure?

A. Depth First Search Traversal
B. Breadth First Search Traversal
C. Preorder Traversal
D. Both A & B
E. None of the above

Answer: D

6.
If the an edges in a graph are ordered pairs of vertices then such a graph is reffered as:

A. Ordered Graph
B. Simple Graph
C. Cyclic Graph
D. Di-graph

Answer: D

7.
Which of the following statement is false about graph

A. Graph may contains zero no. of vertices and zero no. of edges
B. Graph may contains zero no. of vertices and non-zero no. of edges
C. Graph must contains non-zero no. of vertices and non-zero no. of edges
D. All of the above
E. None of the above

Answer: D

8.
All the nodes which can be accessible from any node are reffered as its _____.

A. Ancestors
B. Descendents
C. Followers
D. Siblings

Answer: B

9.
_____ is also called as Binary Heap

A. Complete Binary Tree
B. Strictly Binary Tree
C. Full Binary Tree
D. All of the above
E. None of the above

Answer: A

10.
Minimum height of the Binary Search Tree for "n" input size is:

A. n
B. log n
C. n/2
D. None of the above

Answer: B

11.
In which of the following type of tree each node must contains exactly two no. of childs?

A. Binary Tree
B. Compulsory Binary Tree
C. Strictly Binary Tree
D. Full Binary Tree

Answer: C

12.
The best example of heirachical data structure is

A. Graph
B. Tree
C. Hash Table
D. Direct Access Table

Answer: B

13.
_____ traversal method always visits/prints an elements in a binary search tree in a sorted order.

A. Inorder
B. Preorder
C. Postorder
D. Both A & B

Answer: A

14.
A threaded binary tree is a binary tree in which every node that does not have right child has a link to its

A. Pre-order successor
B. In-order successor
C. In-order predecessor
D. Post-order successor

Answer: B

15.
In a _____ tree key value of parent node is always greater than its childs.

A. Complete Binary Tree
B. Balanced Binary Search Tree
C. Max-Heap
D. Min-Heap
E. All of the above

Answer: C