Graph Theory MCQ Questions and Answers Pdf

- 1. In which tree, for every node the height of its left sub tree and right sub tree differ at least by one?
 - a. AVL tree
 - b. Binary search tree
 - c. Complete tree
 - d. Threaded binary tree

Ans: A

- 2. A graph in which all nodes are of equal degree is called
 - a. Multigraph
 - b. Non regular graph
 - c. Regular graph
 - d. Complete graph

Ans: C

- 3. A vertex of degree one is called
 - a. Pendent
 - b. Isolated vertex
 - c. Null vertex
 - d. Coloured vertex

Ans: A

- 4. The terminal vertices of a path are of degree
 - a. One
 - b. Two
 - c. Zero
 - d. More than four

Ans: A

- 5. A simple graph in which there exists an edge between every pair of vertices is called
 - a. Incomplete graph
 - b. Eular graph
 - c. Planner graph
 - d. Complete graph

Ans: D

- 6. A graph with n vertices and n 1 edges that is not a tree, is
 - a. connected

b. disconnected c. euler d. a circuit Ans: B 7. Which of the following sorting method is stable? a. Straight insertion sort b. Binary insertion sort c. Shell sort d. Heap sort Ans: A 8. What is the true complexity of linear search algorithm over an array of n element? a. 0 (n) b. O(n / log < sub > 2 < / sub > n)c. O(n²) d. (log₂n) Ans: A 9. Preorder is nothing but a. Depth first order b. Breadth first order c. Topological order d. Linear order Ans: A 10. A circuit in a connected graph which includes every vertex of the graph is called a. Euler b. Universal

Hamilton Cheque Ans: C