



COMSATS University Islamabad Vehari Campus
Department of Computer Science
Terminal Exam – FA- 2021

Class: BSSE
 Subject: DataStructure & Algorithms
 Total Time Allowed: 180 mins
 Name: _____

Date: _____
 Instructor: Tahir Rashid
 Max Marks: 50
 Registration # _____

Note: Read all the questions thoroughly and ask if there any questions or query within first five (5) minutes.

Question # 1: Answer the following short questions very precisely and do not write more than two lines. (1+1+1)

- If a tree has $N-1$ nodes, then how many are the links (edges)?
- Describe the conditions necessary for fully connected graph.
- Provide the three real time examples of graphs.

Question # 2: Here is a small binary tree:

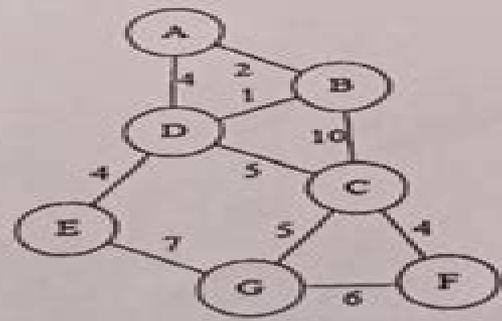


- What are all the leaves? (2pts)
- What are the ancestors of the node 30? (2pts)
- What are the descendants of the node 11? (2pts)
- Is the tree a binary search tree (BST) (true/false)? (1pts)
- Print the tree when visited in in-order manner? (3pts)

Question # 3: Trace the running of the infix to postfix conversion algorithm on the infix expression. (6)
 $A - (B + C) / D$

Question # 4:

- A:** Using Dijkstra's algorithm, find a shortest path on this graph between A and G, showing your work: (5)
- B:** Using Kruskal's algorithm, find a minimum spanning tree on this graph, showing your work: (5)



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