



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:

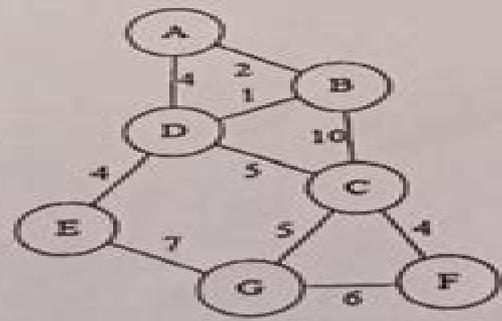


- What are all the leaves? (2pts)
- What are the ancestors of the node 30? (2pts)
- What are the descendants of the node 11? (2pts)
- Is the tree a binary search tree (BST) (true/false)? (1pts)
- Print the tree when visited in in-order manner? (3pts)

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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Data Structures And Algorithm Question Paper

Mao De Ma,Xi Long Qu



Data Structures And Algorithm Question Paper:

Data Structures And Algorithm Question Paper Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Data Structures And Algorithm Question Paper**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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