



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:

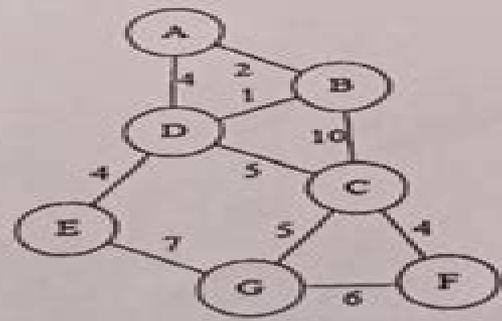


- What are all the leaves? (2pts)
- What are the ancestors of the node 30? (2pts)
- What are the descendants of the node 11? (2pts)
- Is the tree a binary search tree (BST) (true/false)? (1pts)
- Print the tree when visited in in-order manner? (3pts)

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

Peipei Pang



Data Structures And Algorithm Question Paper:

Unveiling the Magic of Words: A Review of "**Data Structures And Algorithm Question Paper**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Data Structures And Algorithm Question Paper**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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