



**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:

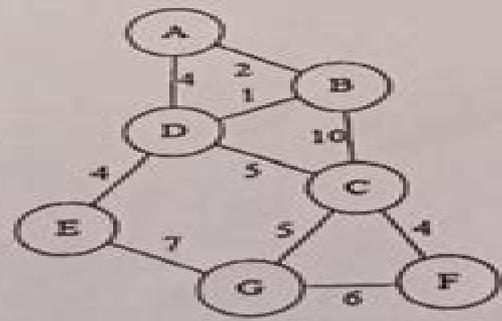


- What are all the leaves? (2pts)
- What are the ancestors of the node 30? (2pts)
- What are the descendants of the node 11? (2pts)
- Is the tree a binary search tree (BST) (true/false)? (1pts)
- Print the tree when visited in in-order manner? (3pts)

**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

**JR Anderson**



## **Data Structures And Algorithm Question Paper:**

## Decoding **Data Structures And Algorithm Question Paper**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Data Structures And Algorithm Question Paper**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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