Oct-2016

0081

COMPUTER SCIENCE PAPER - I : CS - 241
Data Structure - II
(24245)

P. Pages : 2

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :
1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.

1. Attempt **any eight.** 8

   a) Define graph.

   b) List various non linear data structures.

   c) What is bubble sort.

   d) Define binary tree.

   e) What is hashing.

   f) Define BST.

   g) List all tree traversal technique.

   h) What is radix sort.

   i) Define threaded binary tree.

   j) Define binary search.

2. Attempt **any four.** 8

   a) What is AVL tree.
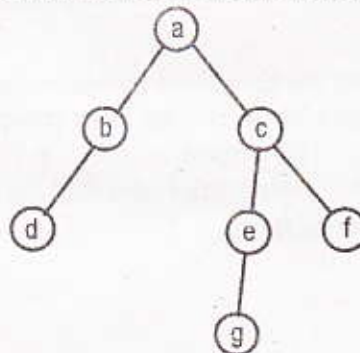
   b) What is tree sort.

   c) List applications of graph.

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d) Give linked representation of tree.

e) What is in order traversal.

f) List various collision resolution techniques.

3. Attempt **any two.** 8

a) Write note on BFS.

b) Write in order & pre order traversal list for following graph.

c) List & explain various operation on binary tree.

4. a) Attempt **any two.** 6

a) Briefly explain hashing functions.

b) Differentiate between DFS & BFS.

c) Give matrix representation of graph.

b) Compulsory question : 2
What is binary search explain.

5. Attempt **any one.** 8

a) What is AVL tree. Explain how insert & delete operations are performed on AVL tree.

b) Give algorithm of merge sort. Explain merge sort with example.

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