

-: Question Bank :-

Course Name : Data Structures And Algorithms

Course Name : C2620C1

Years : 2019

Chapters : 3 , 4

Total Questions : 15

• Questions :-

1. Explain the working of the Prim's algorithm with suitable example. (**Chapter : NonLinear Data Structure**)
2. List out graph traversal techniques & explain any one using suitable example. (**Chapter : NonLinear Data Structure**)
3. Apply Dijkstra's algorithm on following graph with Node A as the starting node. (**Chapter : NonLinear Data Structure**)
4. Given Inorder and Preorder traversal, find Postorder traversal. Inorder:Y B K C F A G X E D H Z Preorder:G B Y A C K F X D E Z H (**Chapter : NonLinear Data Structure**)
5. Draw a Binary expression tree for the following and perform preorder traversal:
 $a * (b + c) + (d * e) / f + g * h$ (**Chapter : NonLinear Data Structure**)
6. Explain insert and delete operations in AVL trees with suitable examples. (**Chapter : NonLinear Data Structure**)
7. Define: i) Cyclic Graph ii) Siblings iii) Strictly Binary Tree (**Chapter : NonLinear Data Structure**)
8. Explain collision in the context of hashing? Discuss collision resolution techniques. (**Chapter : Hashing And File Structure**)
9. Explain indexing structure for index files. (**Chapter : Hashing And File Structure**)
10. Explain Sequential file organizations and list its advantages and disadvantages. (**Chapter : Hashing And File Structure**)
11. Describe indexing structure for index file. (**Chapter : Hashing And File Structure**)
12. Define hash function. Describe any two hash methods with example. (**Chapter : Hashing And File Structure**)
13. What is hash function used for? Give one example of a hash function. (**Chapter : Hashing And File Structure**)
14. Explain Sequential Files and Indexed Sequential Files Structures (**Chapter : Hashing And File Structure**)
15. Create 2-3 Tree for the following sequence: 50, 100, 150, 200 (**Chapter :**

NonLinear Data Structure)