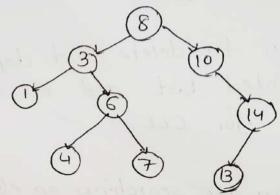
- 1. How would you apply what you learnt to develop a pseudocode for search on element in SLL.
- 2. Write a function or algorithm for insert, delete, display, search in circular linked list and list any 5 applications for CLL.
- 3. How would you apply what you learnt to develop a algorithm for insert, search, delete a display an element in SLL.
- 4. Illustrate function or algorithm for Double linked list to insert, delete, display and search a node and list any 5 applications for DLL.
- 5. Explain how to create circular linked list and insert nodes at end.
- 6. Produce algorithm for insert and delete a node from doubley linked list.
- 7. Write a function for delete and display in Circular Linked List and list any 3 applications for CLL.
- 8. Write a function for searching an element in DLL.

- 9. White a Eprogram for stack using linked list.
- 10. White a program for queve using linked list.

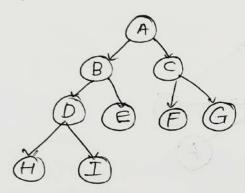
UNIT-4

- 1. Explain about the representation of binary trees using arrays and linked list.
- 2. Evaluate the post order tranversal for given In order traversal of binary tree is E, A, C, K, F, H, D, B, G and pre order traversa is F, A, E, K, C, D, H, G, B.
- 3. Sketch a Binary Search Tree whose preorder traversal is 38,14,8,23,18,56,45,82,70.
- * [Sketch a Binary Birary Search Tree whose preorder traversal is]x

Write inorder, preorder, postorder traversal of the following tree



- 5. Predict a binary tree for given Inorder traversal of a binary tree is D,G,B, F,A, H, F, I, c and pre order traversal is A, B, D, C, E, C, F, H, I
- 6. Construct a binary tree whose Inorder traversal is F.A, C, k, F, H, D, B, G and preorder traversal is F, A, E, k, C, D, H, G, B.
- 7. Analyse a binary search tree for the following 200,50,200,25,90,80,150.
- 8. Sketch the following binary search trees using array and linked list?

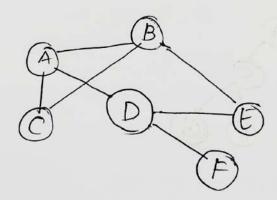


- 9. Illustrate a function for insert, delete, display Search Operations on binary Search tree.
- lo. How would you construct a binary search tree from in order and preorder traversals?

- and maximum element of a given tree and write algorithms for it.
- 12. Analyse the concept of a binary tree and list its type and properties.
- 13. Demonstrate tree traversals of a binary search tree ? Outline algorithm.

UNIT-5

1. Défferentiate between trees and graphs?



- 2. Predict BFS and DFS
- Illustrate the concept of collision? What are collision resolution techniques? Predict the advantages and disadvantages of Various collision resolution strategies.
- 4. Explain about Hashing . What is Hash Table ?

- 5. Explain about different types of graphs with a neat diagram.
- 6. White a Cprogram for Depth First Traversal in graphs.
- 7. Write a Cprogram for Breadth First Traversals in graphs.
- 8. Analyze input (371, 323, 173, 199, 344, 679, 989) and hash function h(x) = x mod 10, Show the result separate Chaining linear probing.
- 9. Prepare the Hash table of size 11 by using quadratic probing to fill. Data elements are 23,0,52,61,78,33,100,8,90,10,14.
- 10. Prepare the Steps for hash table entries

 for the given data set using linear

 probing 12,45,67,88,27,78,20,62,36,55

 (size = 10)
- 11. Produce BFS on

