

06CS35

- 6 a. How can an ordinary queue be represented, using a singly linked list? Write C functions for linked implementation of ordinary queue insertion and deletion. (10 Marks)
- b. Write a C program to perform the following operations on doubly linked list:
i) Insert a node
ii) Delete a node. (10 Marks)
- 7 a. What are binary trees? Mention different types of binary trees and explain briefly. (06 Marks)
- b. Write C functions for the following tree traversals:
i) Inorder
ii) Preorder
iii) Postorder. (06 Marks)
- c. Write an algorithm to construct a binary tree for the inputs
14, 15, 4, 9, 7, 18, 3, 5, 16, 4, 20, 17, 9, 14, 5
indicating a message for duplicate members. Draw the tree constructed by the above program. (08 Marks)
- 8 Write short notes on:
a. Unions
b. Circular lists
c. Threaded binary tree
d. Types of files. (20 Marks)
