

SCAN ME



VIT
UNIVERSITY
Vellore, India

School of Computer Science and Engineering
Winter Semester 2019-2020

Continuous Assessment Test-1

Programme : B.Tech CSE
Course : Data Structures & Algorithms
Duration : 90 Minutes

Slot : B1
Course Code : CBS1003
Max. Marks : 50

Answer ALL Questions

5*10=50

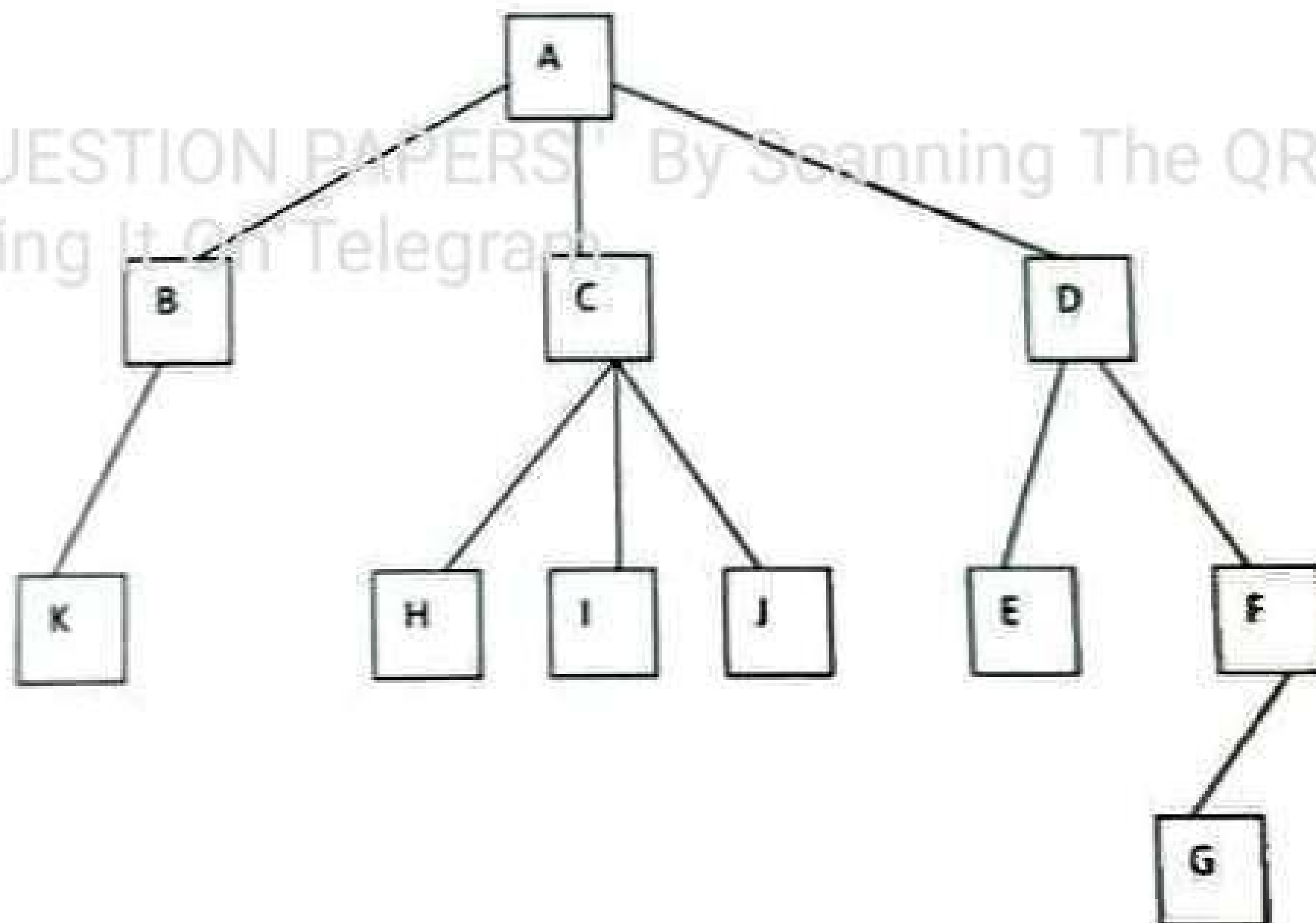
I. a. Find out the value of given prefix expression using stack?

[5]

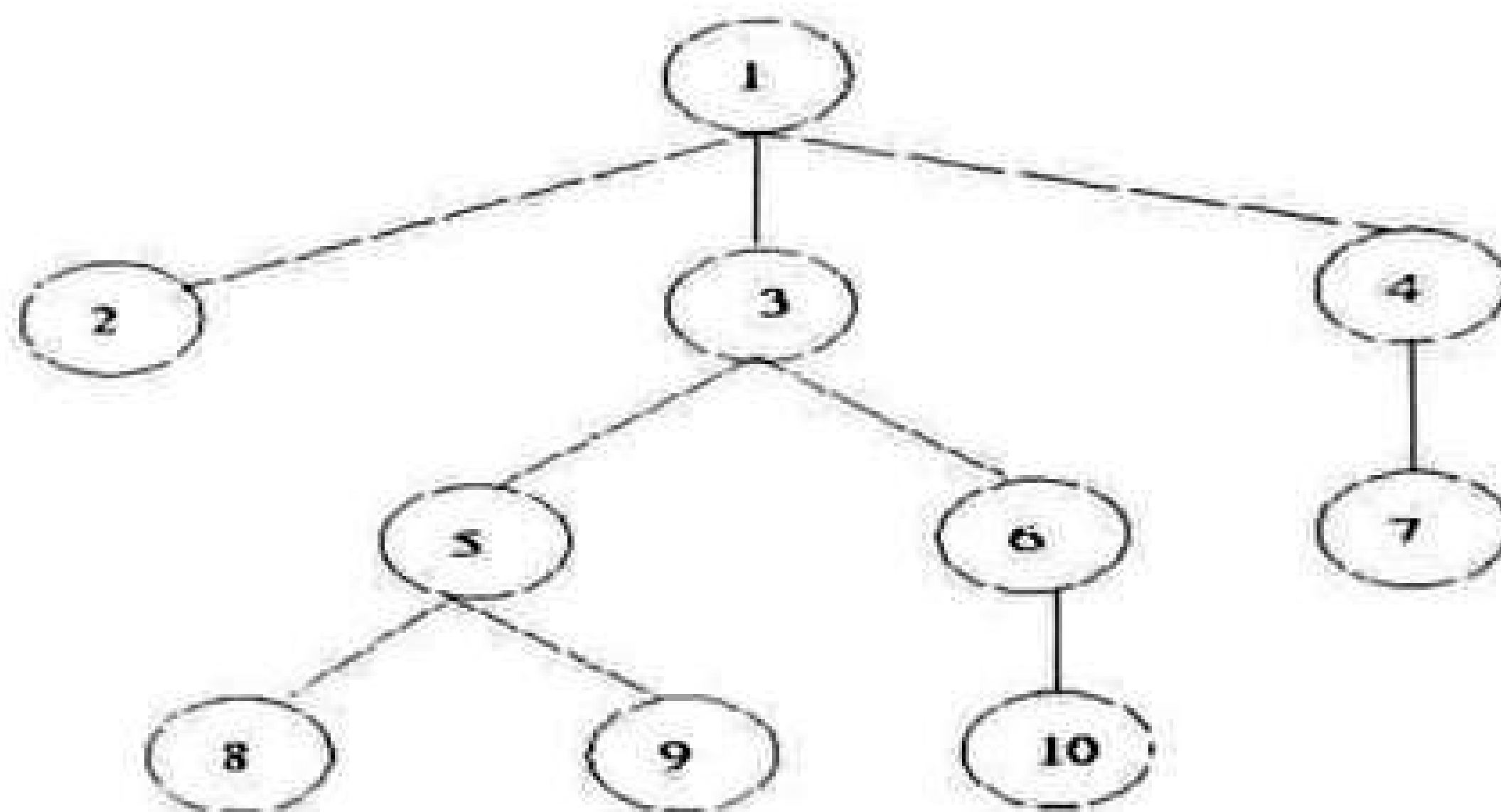
$1 - * 3 3 + 4 2 5$

b. Convert the given general tree into binary tree

[5]



2. Perform INORDER, PREORDER, POSTORDER traversal on the given tree. [10]



3. Convert the infix expression $(a * (b + c)) + (b / d) * a$ to prefix expression using stack. [10]

4. Write a pseudocode for Remove duplicates from an unsorted linked list. [10]

5. Suppose we have a queue Q and want to obtain a copy of it. That is, we want to create a new queue C and implement an algorithm that will make sure that Q and C have the same elements and in the same order. How can we do that? [10]