MANJARA CHARITABLE TRUST

RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

Department of Applied Sciences & Humanities

INTERNAL ASSESSMENT (IA) - II

Date: 17/04/2025

Max. Marks: 20 **Duration:** 60 minutes

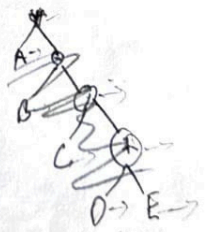
Name of the Course: Data Structure (PCC2011)

Branch: Computer. AIDS, IT

Instructions:

1. Question 1 (i,ii,iii) is **compulsory** for 10 marks.
2. From Question 2 to 4 (solve any two)
3. Figures to the right of the question indicate full marks.
4. Assume the suitable data wherever necessary.
5. Illustrate your answers using neat diagrams wherever necessary.

Questions	Max Marks	Bloom's Taxonomy Level	Course Outcomes
Q.1 Compulsory.			
i) Write note on Circular Queue.	3	2	CO3
ii) Write a note on the DLL.	3	2	CO4
iii) Define Terminology. a) Strictly Binary Tree. b) Complete Binary Tree. c) Degree of node and tree.	4	1	CO5
From Question 2 to 4 Solve any Two.			
Q2) Write a function Insert( ) to add a Node at the Tail of a SLL.	5	3	CO4
Q3) Construct an expression tree for a given expression **A * (B - C) / (D + E)** and **traverse in postorder**.	5	3	CO6
Q4) Explain how deletion of a node is performed in a Binary Search Tree. (All 4 Cases).	5	2	CO5



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