

Sumridhi Sarwajanik Charitatsle Trust's

JHULELAL INSTITUTE OF TECHNOLOGY

An Autonomous Institute affiliated to RTM Nagour University
Department of Computer Science & Engineering
Of Korad-Bood, Longo, Nagour 441111



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Continuous Assessment Examination - II Session: 2024-25 [Odd-24]

Branch: CSE

Course Name: Data Structure and Program Design

Date of Examination: 26/09/2024

Time: 1.5 hrs

Semester: 3

Course Code: CSPC202T

Max. Marks: 30 Marks

Instructions to candidate:

a) All questions carry marks as indicated

b) Assume suitable data wherever necessary.

1.	Develop a C function to delete a node in a circular linked list.	(BL 3) (CO3)	6M
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2.	Develop a C program to subtract 2 polynomials using linked list	(BL 3) (CO3)	6M
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3.K	What is a Binary Search Tree? Explain & construct a BST from the following data: 43, 49, 09, 20, 33, 31, 02, 01, 57, 55.	(BL 3) (CO4)	6M
	Write all types of Traversals		里
3.B	Explain Threaded Binary Tree in detail with example	(BL 2) (CO4)	6M
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4.A	Construct a tree for following pre order and inorder traversal.	(BL 3) (CO4)	6M
	Preorder: GBQACKFPDERH LDR In order: QBKCFAGPEDHR DLR		
4.B	Develop a C program to insert a node in BST.	(BL 3) (CO4)	6M
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5.A	Compare between DFS and BFS techniques of graph traversal.	(BL 2) (CO5)	6M
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5.	Develop a program to create a linked list with 2 nodes.	(BL 3) (CO-3)	6M
	OR		
6.	Construct a function to insert a node in single linked list with all 3 conditions.	(BL3)(CO-3)	6M