



Course Code/Name : AD3251-Data structures Design

Regulation : 2021

UPC – Student Planner

Slot	Unit .No	Name of the Unit	Questions	CO Mapping	Grade	
					A	B
1	IV	Tree Structures	1.Tree Traversal Algorithms with example (16) 2. AVL Trees(16) 3.Binary Search Tree(12) 4.Heaps(12) 5.Binary Trees(6)	C113.4	1 2 3 4	5
2	V	Graph Structures	1. Shortest Path-DijkstrasAlgorithm.(12) 2. Minimum Spanning Tree -Prims algorithm(12) 3. Shortest path unweighted graph.(12) 4.Graph traversal (12) 5.Topological ordering (8) 6. Minimum Spanning Tree -Kruskal algorithm(8)	C113.5	1 2 3 4	5 6
3	III	Sorting and Searching	1.Collision Handling Techniques.(16) 2.Insertion Sort(8) 3.Selection Sort.(8) 4.Quick Sort(8) 5.Searching Techniques.(12) 6. Rehashing Technique (8) 7.Bubble Sort(8) 8.Merge Sort(8)	C113.3	1 2 3 4 5 6	7 8
4	II	Linear Structures	1.Applications of Stack .(8) 2. Doubly Ended Queue(12) 3. Doubly Linked List (12) 4. Circular Linked List (12) 5. Singly Linked List(16) 6.Queue (8)	C113.2	1 2 3 4 -	5 6
5	I	Abstract Data Types	1. Asymptotic Notation. (16) 2. Recursive implementations(8+8+8+8) 3. Inheritance(12) 4. Operator Overloading.(8) 5. Class programs.(8) 6.Functions used to analyze the algorithm. (8)	C113.1	1 2 3	4 5 6
6	Part-A Questions		2 Marks			

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