

2	The	following questions from unit -2 :				
	(a)	Attempt the following objective questions:				
		(1) Whether Linked List is linear or non-linear structure ?	data			
		(2) List different types of Linked List.				
		(3) To delete a node in singly linked list, the node is required.				
		(4) What will be the value of top, if there is a of stack. STACK_SIZE is 5 ?	size			
	(b)	Attempt any one out of two from the following	2			
		(1) What is linear data structure?				
		(2) What are common operations that can be performed on a data-structure?	rmed			
	(c)	Attempt any one out of two from the following	3			
		(1) What is a linked-list?				
		(2) What operations can be performed on stack	xs ?			
	(d)	Attempt any one out of two from the following:				
		(1) Why do we use queues? Explain with example 1.	nple.			
		(2) How to create link list? Give example by wr code.	iting			
3	The	following questions from unit – 3:				
	(a)	Attempt the following objective questions:	4			
		(1) Tree is a data structure.				
		(2) non-linear data structure compare arrays, linked lists, stack and queue.	d to			
		(3) Tree is a collection of elements called	·			
		(4) If node has no children, it is called	_•			
	(b)	Attempt any one out of two from the following	2			
		(1) What is Sparse Matrix ?				
		(2) Define Depth of Node and Degree of Node				
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	(c)	Attempt any one out of two from the following: 3		
		(1) List Advantages of Tree.		
		(2) List and explain various application of trees.		
	(d)	Attempt any one out of two from the following: 5		
		(1) Write an algorithm or program for pre order and		
		post order traversal of tree.		
		(2) Write an algorithm of program for binary tree		
		creation.		
4	The	following questions from unit -4 :		
	(a)	Attempt the following objective questions: 4		
		(1) Partition and exchange sort is		
		(2) is the method used by card sorter.		
		(3) If the number of records to be sorted is small, then		
		sorting can be efficient.		
		(4) The easiest sorting is		
	(b) Attempt any one out of two from the following			
		(1) What is Sorting?		
		(2) What is Searching?		
	(c)	Attempt any one out of two from the following: 3		
		(1) Explain bubble sort.		
		(2) Explain merge sort.		
	(d)	Attempt any one out of two from the following: 5		
		(1) Explain Binary search with its algorithm or		
		program.		
		(2) Differentiate merge sort with quick sort.		

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5	The following questions from unit -5 :					
	(a)	Atte	mpt the following objective questions:	4		
		(1)	Name the variants of knapsack Problem.			
		(2)	The 0-1 Knapsack problem can be solved using			
			Greedy algorithm: true or false?			
		(3	The Knapsack problem is an example of			
		(4)	Greedy algorithms chiefly solve problems.			
	(b)	Atte	mpt any one out of two from the following:	2		
		(1)	What is knapsack Problem?			
		(2)	Explain the applications of greedy method.			
	(c)	Atte	mpt any one out of two from the following:	3		
		(1)	Explain greedy methods to solve the problem.			
		(2)	Write a note on spanning trees.			
	(d)	Atte	mpt any one out of two from the following:	5		
		(1)	Explain working of Fractional Knapsack Problem.			
		(2)	Write a note on Job sequencing problem.			