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SB	Roll	No	
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DATA STRUCTURE USING C 4th Exam/Comp/IT/CSE/0622/Nov'18

4" Exam/Comp/11/CSE/0622/NoV/18				
Durati		Marks:75		
	SECTION-A			
Q1. Do	as directed.	10x1.5=15		
a.	The to the transfer of the tra			
	Array is a Data structure.			
	A binary tree can have at most children			
d.	1 1 1 3 3			
e.				
f.	A node is Divided into two parts first is and 2 nd is			
g.	Tree is data structure			
h.	Time Complexity of Binary search is O(log₂n).True/False			
i.	Big Oh notation describes theof an algorithm.			
j.	An algorithm is sequence ofto complete a task.			
	SECTION-B			
Q2. At	tempt any five questions.	5x6=30		
İ.	1 31			
	Write Binary search algorithm and explain briefly?			
iii.	Define postfix evaluation algorithm with following infix expression.			
	((A+2)*(B+7))-3, (convert this into postfix first). You may take any positive value			
İ۷.	What is Linked list? Write an algorithm to insert an element at any location in	linked list.		
٧.				
٧i.				
vii.				
viii.	Write algorithms to push and pop an element through stack.			
	SECTION-C			
∪3 V +-	tempt any two questions.	2x15=30		
	Write an algorithm to convert infix notation to postfix Notation.	ZX13-30		
	Write a note on any three			
D.	i. Binary Tree			
	ii. De-queue			
	iii. Recursion.			
	iv. Memory representation of an array			
C.	What do you understand by Binary tree traversal? Explain various traversal te	chniques with		
0.	suitable evample	oquos vitti		

d. Write an algorithm to traverse a linked list and also to search a node in linked list.