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2	(a)	Explain Recursion with proper example. State its Pros	0
_	(4)	and Cons. Write a Recursive function to find factorial	8
	<b>a</b> .	of given number.	
	(b)	Explain D-Queue with its advantages. Write an	7
		algorithm to insert and delete in output restricted D-Que	ue."
	<i>2</i> ×	OR	
2	(a)	Write a program to create a structure Cricket contain the fields (playername, teamname, bet easers) developed	8
		the fields (playername, teamname, bat_score).develop functions to insert the record, display the record, sort	.))
		the records teamname wise.	
	(b)	Give the difference between call by value and call	7
	,	by reference. Explain with suitable example.	
3	(a)	What is stack? Write algorithms for all the stack	8
		operations.	:•**
	(b)	How to pass and access pointer to structure in function with example.	7
-		OR OR	
r	(a)		
$\checkmark$	(a)	Explain circular queue. Give the algorithm for insertion and deletion in a circular queue.	8
	(b)	What is function? Difference between user define	7
·		and built in function. Explain elements and category of	
		user define function.	
4	(a)	Write a program to perform following operations on	8
	-	doubly linked list :	
		<ul><li>(i) insert at given position</li><li>(ii) delete particular value</li></ul>	
		(iii) display the list.	
	(b)	List out all Input/output functions of file. Explain	7
		in brief with example.	
	<	OR	•
4	(a)	Write a program to implement circular queue using	8
	(b)	doubly linked list. With operations to insert and delete. List out all functions of random access file. Explain	7
		in brief with example.	4
. (	<b>TT</b> 7 · <b>F</b>		
5	(i)	e <sup>°</sup> short notes : (any <b>three</b> ) Non primitive data structures	15
>	(ii)	Binary search	
	(iii)	Memory representation of Array	
)/-	(iv)	Quick sort	
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