Q.P. Code: 20CS0501											R20		
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	0.1		PROG										
				(Com	mon t	o EEE	E, ME	and E	CE)				
1	ime: 3 hours		(An		11 5.	e Unit		12 - 6	0 Mar	rka)	Max. Ma	arks: 6	0
			(All	swel a		A COLUMN TWO IS NOT	and the second se	12 - 0	U Iviai	KS)			
1	e Evolain in	UNIT-I Explain in detail about the data types in C										L2	<u>(M</u>
I	-												6M 6M
	o wine a pro	OR											UIVI
2	a Define the												6M
	b Explain about precedence and associativity in C.										L1 L3	6M	
	Î	Î				UNI							
3	a Write a C	a Write a C program for displaying smallest element in array.											6M
	b Distinguish between call by value and call by reference with examples.										L3 L4	6M	
	OR										2.	UTT	
4	Define String. Explain the different string handling functions with example.											L4	12M
5	a How do yo	a How do you define structure within a structure? Explain with an example.b Illustrate the use of typedef with suitable example.										L2	6M
	b Illustrate t											L3	6M
						0]	R						
6		a What is a pointer? What are the features of pointers? Write a C program to address of a variable.										L1	6M
	b What is the use of period operator? Give an example.											L1	6M
						UNIT	I-IV						
7	a What is da	a What is data structure? Explain the linear and nonlinear data structure in								in detail.	L2	6M	
	b What are the advantages and disadvantages of stack and queue?										L1	6M	
	OR												
8	Implement the following single linked list operations:											L6	12M
	i) Insertion of												
	ii) Deletion of a node												
	iii) Searching	an elemen	lť				D X 7						
•	DC	0.14	11.00			UNI					1		4.8.7.5
9	Define sortin	g? Mentior	n differe	ent typ	es of			lain Ç	uicks	ort in	detail.	L4	12M
10	OR												6M
10		1											
		b Find the number 77 from the following set of numbers using binary search : 6, 12, 17, 23, 38, 45, 77, 84, 90.											6M
	0, 12, 17, 2	-5, 50, 45,	//, 04,	<i>J</i> 0.									
					*:	** CN	D ***						

*** END ***