CBCS (scheme
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	1	GBCS Scheme	(Total	
USN	1		17PCD13	
	L	First Semester B.E. Degree Examination, Dec.2017/Jan.20		
		Programming in C and Data Structures	710	
m:				
111			Marks: 100	
	Ι	Note: Answer any FIVE full questions, choosing one full question from each m	odule.	
1	a.	Module-1 List all the logical operators and write a C program to demonstrate working of	`4laaaa 1aa:aa1	
1	b. с.	operators. Explain structure of C program with an example. Classify the following as valid and invalid variable. If invalid give reasons. i) r143	(10 Marks) (05 Marks)	
		ii) help+me iii) auto iv) hello_how v) *a	(05 Marks)	
		OR		
2	a.	What is a token? What are different types of tokens available in c language? Ex		
	b.	Write an algorithm and program to find biggest of three numbers.	(10 Marks) (10 Marks)	
		Module-2		
3	a.	Write a C program to find the roots of quadratic equation.	(10 Marks)	
	b.	Explain syntax of while statement. Write a C program to check the give palindrome or not.	n number is (10 Marks)	
		OR S		
4	a. b.	Explain break and continue statements with respect to do-while, while and suitable examples. Print the following series: 1 1 2 1 2	for loop with (10 Marks)	
	c.	1 2 3 1 2 3 4 Explain ternary operator with suitable example.	(05 Marks) (05 Marks)	
5	a. b.	Module-3 Define an array. Write a syntax for declaring two dimensional array and initia with suitable example. Write a C program to find sum of array elements by passing array as function ar	(10 Marks)	
	c.	Explain any two string manipulation functions.	(05 Marks) (05 Marks)	
OR				
6	a. b.	Explain recursion with an example. Write a C program to sort the elements of a given array using bubble sort.	(06 Marks) (08 Marks)	

Write a C program to concatenate two strings without using built-in function streat().

(06 Marks)

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	Carrier and	Module-4	
7	a.	What is structure? Explain its declaration and initialization with an example.	(06 Marks)
1	b.	Explain any four file operations with an example.	(06 Marks)
	c.	Write a program to pass structure variable as function argument.	(08 Marks)
	C.	Write a Sprogram to pass structure	
		OR	
Q	a.	Write a C program to store and print Name, USN, SubjectName and IA Marks	of student
O	а.	using structure,	(10 Marks)
	b.	Explain typedef with suitable example.	(05 Marks)
	c.	Explain how the input is accepted from file and displayed.	(05 Marks)
	0.	(0)(0)	
		Module-5	
9	a.	What is pointer? Give advantages and disadvantages of pointers in C.	(07 Marks)
	b.	Explain malloc() and calloc() functions with examples.	(06 Marks)
	c.	What is queue? Explain its operations.	(07 Marks)
		(Sa)	
		S OR OR	
10	a.	Write a C program to swap two numbers using call by address.	(08 Marks)
	b.	What are primitive and non-primitive data types and explain.	(07 Marks)
	c.	Define stack. List applications of stack.	(05 Marks)