GBCS Scheme

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USN	4		PECD13		
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		First Semester B.E. Degree Examination, Dec.2017/Jan.2018			
		Programming in C and Data Structures			
Tim	ie: 3	3 hrs. Max. Ma	rks: 100		
	Λ	Note: Answer any FIVE full questions, choosing one full question from each mode	ule.		
		Module-1			
1	a.	List all the logical operators and write a C program to demonstrate working of the	ese logical		
			(10 Marks)		
	b. c.	Explain structure of C program with an example. Classify the following as valid and invalid variable. If invalid give reasons.	(05 Marks)		
	С.	i) r143			
		ii) help+me			
		iii) auto iv) hello how			
			(05 Marks)		
		TOR STATE OF THE PROPERTY OF T			
2	a.	What is a token? What are different types of tokens available in c language? Expla			
	b.		(10 Marks) (10 Marks)		
	٠.	(6)			
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 given			
		palindrome or not.	(10 Marks)		
		OR S			
4	a.	Explain break and continue statements with respect to do while, while and for			
	h	suitable examples. Print the following series:	(10 Marks)		
	0.	1			
		1 2 1 2 3			
		1234	(05 Marks)		
	c.	Explain ternary operator with suitable example.	(05 Marks)		
		Module-3			
5	a.	Define an array. Write a syntax for declaring two dimensional array and initialize			
	1.	with suitable example.	(10 Marks)		
	b.	Write a C program to find sum of array elements by passing array as function argu	(05 Mark s)		
	c.	Explain any two string manipulation functions.	(05 Marks)		
	OR				
6	a.	Explain recursion with an example.	(06 Marks)		
	b.	Write a C program to sort the elements of a given array using bubble sort. Write a C program to concatenate two strings without using built-in function stream	(08 Marks)		
	c.	write a C program to concatenate two strings without using outtent function stream	(06 Marks)		

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		Module-4	^
7	a. S	What is structure? Explain its declaration and initialization with an example.	(06 Marks)
	b.	Explain any four file operations with an example.	(06 Marks)
	c.	Write a program to pass structure variable as function argument.	(08 Marks)
		(1)	
		OR	
8	a.	Write a optogram to store and print Name, USN, SubjectName and IA Marks	of student
		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)	
		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)
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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)
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