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BESCK204E/BESCKE204

Second Semester B.E./B.Tech. Degree Examination, Nov./Dec.2023
Introduction to C Programming

Time: 3 hrs.   Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Explain the basic organization of computer with neat labeled diagram.	12	L2	CO1
	b.	With a diagram explain the working of CRT monitor.	8	L2	CO1
		OR			
Q.2	a.	Explain the structure of a C program.	7	L2	CO2
	b.	What is an identifier? What are the rules to form identifier names?	7	L2	CO2
	c.	Explain printf and scanf statements with syntax.	6	L2	CO2
		Module – 2			
Q.3	a.	Explain switch statement with syntax and example.	10	L2	CO2
	b.	Explain the logical operators in C.	5	L2	CO2
	c.	Write a program to find the largest of three numbers.	5	L2	CO2
		OR			
Q.4	a.	Explain while and do-while loops with syntax.	10	L2	CO2
	b.	Write a C program to find factorial of a number using for loop.	6	L2	CO2
	c.	Explain break and continue statements.	4	L2	CO2
		Module – 3			
Q.5	a.	Define function. Explain the elements of user defined functions.	8	L2	CO4
	b.	Develop a C program to add two integers using function.	6	L3	CO4
	c.	Define recursion. What are the advantages of recursion?	6	L2	CO4
		OR			
Q.6	a.	Define array. Explain declaration and initialization of one dimensional array.	10	L2	CO3
	b.	Develop a C program to sort the given 'n' numbers is ascending order using bubble sort.	10	L3	CO3

		Module – 4			
Q.7	a.	Develop a C program to multiply two matrices of order m × n.	12	L3	CO3
	b.	Write a C program to concatenate two strings without using library function.	8	L3	CO3
		OR			
Q.8	a.	Develop a C program to sort the names in ascending order.	10	L3	CO3
	b.	Write a C program to transpose a matrix of order 3 × 3.	10	L2	CO3
		Module – 5			
Q.9	a.	Explain any five string manipulation functions.	10	L2	CO3
	b.	Develop a program to compute the mean, variance and standard deviation of 'n' numbers using pointer.	10	L3	CO5
		OR			
Q.10	a.	Explain the structure concepts and illustrate the declaration and initialization of structure with example for each.	10	L2	CO3
	b.	Develop a C program to read and display the information consisting of Roll Number, Name, Age and Marks of 'n' students in a class.	10	L3	CO5

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