CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐

BESCK104E/ BESCKE104

First Semester B.E/B.Tech. Degree Supplementary Examination, June/July 2024

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**
1	a.	Discuss with a neat block diagram, the basic organization of computer.	6	L2	CO1
	b.	Explain with example the basic data types of C language	7	L2	CO2
	c.	Explain with block diagram the compiling and executing of C program.	7	L2	CO2
		OR			
2	a.	Brief out the generation of computers with examples.	7	L1	CO1
	b.	Explain the basic structure of C program with an example.	7	L2	CO2
	c.	Discuss about the variables and constants of C language with examples.	6	L2	CO2
		Module – 2			
3	a.	Explain type conversion of expression in C language show the steps of type conversion for the expression : char ch ; int i ; float f ; double d, res ; res = (ch + i) ∗ (f / i) + (d – f) ;	6	L3	CO2
	b.	Explain various types of decision control statements of C language with syntax and example.	8	L2	CO2
	c.	Write a program to find the largest of three uses defined floating point numbers.	6	L3	CO2
		OR			
4	a.	Discuss with syntactic structure and flow chart of preparing the for loop statement in C language. Give examples.	6	L2	CO2
	b.	Explain use of break and continue statements in C language.	6	L2	CO2
	c.	List and discuss the operators of C language with example.	8	L2	CO2
		Module – 3			
5	a.	Discuss the implementation of uses defined function with suitable examples.	7	L2	CO3
	b.	Implement matrix multiplication and validate the rules of multiplication with C program.	7	L3	CO3
	c.	Differentiate between call by value and call by reference using suitable examples.	6	L2	CO2
		OR			
6	a.	Explain the design and implementation of one dimensional array with example.	6	L2	CO3
	b.	Discuss about the storing and accessing of elements in one dimensional array.	6	L1	CO3
	c.	Write a C program to sort the given N numbers using the bubble sort algorithm.	8	L3	CO3

		Module – 4			
7	a.	Write a program to concatenate two strings without using built-in function.	6	L3	CO2
	b.	Explain about multidimensional array with example.	7	L2	CO3
	c.	Write functions to implement string operations such as compare, string length. Convince the parameter passing techniques.	7	L3	CO5
		OR			
8	a.	Discuss the functions for character manipulations of strings in C language.	6	L2	CO3
	b.	Write a C program to read and write the names of n students of a class using the string array.	8	L3	CO5
	c.	How to pass an array to a function? Discuss with simple examples.	6	L1	CO3
		Module – 5			
9	a.	Discuss about the declaration and initialization of pointer variables in C language.	6	L1	CO4
	b.	Discuss an array of strings with an example.	6	L2	CO3
	c.	Develop a C program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of N real numbers.	8	L3	CO4
		OR			
10	a.	Explain the structures in C language, with examples.	6	L2	CO5
	b.	Implement a structure of student with elements NAME, USN and GRADE. Write function to read and write student structure.	8	L3	CO5
	c.	Explain the passing of pointer variable to a function with an example.	6	L1	CO4

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