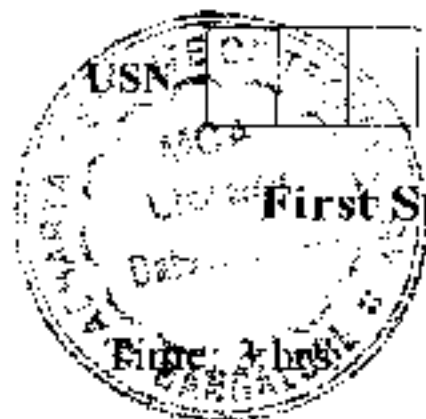




First Semester B.E/B.Tech. Degree Examination, June/July 2025
Introduction C Programming

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 classification and application of computers.	6	L1	CO1
	b.	Explain structure of C program with example.	7	L2	CO2
	c.	Write a program to find the largest of three numbers.	7	L3	CO2
OR					
2	a.	Discuss the types of input and output devices used in computers.	6	L1	CO1
	b.	Explain printf() and scanf() functions of C with examples.	8	L2	CO2
	c.	Write a program to calculate the grade for students with your sample grades.	6	L3	CO2
Module – 2					
3	a.	Explain operator precedence and associativity with examples.	6	L2	CO2
	b.	Write a program to calculate average of given numbers using for loops.	6	L3	CO2
	c.	Explain looping statements in C language with syntax and example.	8	L2	CO2
OR					
4	a.	Discuss if and switch statement syntax in C language and give examples.	10	L2	CO2
	b.	Explain the usage of break, continue and go to statements in C language with examples.	10	L2	CO2
Module – 3					
5	a.	Explain function definition, function calls, function declaration. Give suitable examples.	6	L2	CO5
	b.	Explain implementation of recursive functions with complete C program.	6	L3	CO5
	c.	Discuss call by value and call by reference in parameter passing with suitable illustrations.	8	L2	CO5
OR					
6	a.	Explain declaration and initialization of one dimensional array with examples.	10	L3	CO5
	b.	Implement matrix multiplication and validate the rules of multiplication of matrix.	10	L2	CO3
Module – 4					
7	a.	Explain declaration and initialization of two dimensional array with example.	10	L2	CO3
	b.	Write a C program to sort the given N numbers using the bubble sort algorithm.	10	L3	CO3

OR

8	a.	Explain the declaration, initialization of strings in C and arrays of strings with examples.	10	L2	CO4
	b.	Implement structure to read, write and compute average marks of the students scoring. Display students scoring above and below the average marks for a class of N students.	10	L4	CO4

Module – 5

9	a.	Using suitable code, discuss the working of the following string functions : (i) Strcat() (ii) Strlen() (iii) Strcmp()	6	L2	CO4
	b.	Write a program to transpose the elements of a 3 × 3 matrix.	8	L3	CO3
	c.	Implement a structure of student with elements NAME, USN and GRADE. Write functions to read and display student structure.	6	L4	CO4

OR

10	a.	Explain structures with syntax and example.	6	L2	CO4
	b.	Develop a program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of N real numbers.	7	L4	CO4
	c.	Explain the passing of pointer variables to a function with examples.	7	L2	CO4

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