



Second Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026

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.	Define Computer. With neat block diagram, explain different components of a computer.	10	L2	CO1
	b.	Explain Input and Output devices.	10	L2	CO1
OR					
Q.2	a.	Define Variable. Explain the rules for declaring the variables.	6	L2	CO1
	b.	Explain the structure of 'C' program, with an example.	10	L2	CO1
	c.	Write a C program to compute sum and average of three numbers.	4	L3	CO1
Module – 2					
Q.3	a.	Explain 'If-else' conditional branching statements in C language.	7	L2	CO2
	b.	Explain 'for' iterative statement with example.	7	L2	CO2
	c.	Explain 'goto' statement with example.	6	L2	CO2
OR					
Q.4	a.	Explain Arithmetic Operators in 'C' with example.	6	L1	CO2
	b.	Explain Type conversion and Type casting.	6	L2	CO2
c.	Write a C program to check the given character is Lower case or Upper case or special character.	8	L3	CO2	
Module – 3					
Q.5	a.	Explain following terms with examples : i) Function declaration ii) Function definition iii) Function call.	7	L2	CO4
	b.	What is Function in C program? Explain needs of function.	7	L2	CO4
	c.	Write a C program to find factorial of a given number using recursion.	6	L3	CO3
OR					

Q.6	a.	List the applications of arrays.	4	L1	CO3
	b.	Write a C program to implement matrix multiplication and validate the rules of multiplication.	10	L3	CO3
	c.	With syntax example, explain scan set function.	6	L2	CO3
Module – 4					
Q.7	a.	Write a C program to find the length of a given string without using inbuilt function.	10	L2	CO3
	b.	What is a Pointer? Show the use of two pointer operators & and *.	10	L2	CO3
OR					
Q.8	a.	Write a C program to perform addition of two matrices.	7	L3	CO3
	b.	Illustrate to access elements of two dimensional arrays. Explain with example.	7	L2	CO3
	c.	Illustrate to pass two dimensional arrays to function. Explain with example.	6	L2	CO3
Module – 5					
Q.9	a.	Explain the following string manipulation functions : i) Strlen () ii) Strcpy () iii) Strcmp () iv) Strcat ()	8	L3	CO3
	b.	Write a C program to compute the sum, mean and standard deviation of all elements stored in an array of N real numbers using pointers.	8	L3	CO4
	c.	Explain string taxonomy with help of example.	4	L2	CO3
OR					
Q.10	a.	Define Structure. Explain the declaration of a structure with an example.	8	L2	CO4
	b.	Write a C program to implement structure to read, write and compute average marks and the students scoring above and below the average marks for a class of N students.	12	L3	CO4

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