

# CBCS SCHEME

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BESCK204E

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			
Q.1	a.	Define Computer. With neat block diagram, explain different components of a computer.	M 10    L L2    C 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
<b>Module – 4</b>					
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
<b>OR</b>					
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
<b>Module – 5</b>					
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
<b>OR</b>					
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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