

CBCS SCHEME

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BESCK104E

First Semester B.E./B.Tech. Degree Examination, June/July 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.	Write basic structure of 'C' program and explain its different sections.	08	L1	CO1
	b.	Define a variable. Explain the rules for constructing variables in 'C' language with examples.	06	L1	CO1
	c.	Define a token. Explain the different tokens available in 'C' language.	06	L1	CO2
OR					
Q.2	a.	What is an Operator? List and explain any 4 types of operators.	08	L1	CO1
	b.	List the input devices of computer and explain any two input devices.	06	L1	CO1
	c.	What is a Data Type? Explain all the basic data types in 'C' language with examples.	06	L1	CO2
Module – 2					
Q.3	a.	What is Looping? Differentiate between while and do-while loop with syntax.	08	L2	CO1
	b.	Write a program to check whether a given integer is palindrome or not.	08	L3	CO1
	c.	Explain break and continue statement in 'C' language with example.	04	L1	CO2
OR					
Q.4	a.	Write a C program to find factorial of a number n.	06	L3	CO2
	b.	How would you explain switch statement with an example?	08	L2	CO1
	c.	Explain formatted input output functions in C with examples.	06	L1	CO2

Module – 3

Q.5	a.	What is function? Explain different types of functions with suitable examples.	08	L2	CO1
	b.	Write a program to sort a given array of integers in ascending order using Bubble sort technique.	08	L3	CO2
	c.	Explain scope of a variable with example.	04	L2	CO1

OR

Q.6	a.	What is an array? Explain how 1D and 2D arrays are declared and initialized.	08	L1	CO2
	b.	Define Recursion. Write a C program to find factorial of number using recursion.	06	L3	CO2
	c.	Explain call by value and call by reference with example.	06	L3	CO1

Module – 4

Q.7	a.	How would you explain string manipulation functions with examples?	08	L3	CO2
	b.	Implement a matrix multiplication with validation of matrix multiplication.	12	L3	CO2

OR

Q.8	a.	Explain the declaration and initialization of string variables.	04	L1	CO1
	b.	Write a C program to find the transpose of a given matrix.	10	L3	CO2
	c.	Write a C program to check a given string is palindrome or not.	06	L3	CO1

Module – 5

Q.9	a.	What is Pointer? Explain with suitable example pointer declaration and initialization.	06	L2	CO2
	b.	Write a C program to swap contents of two values using pointer.	06	L3	CO2
	c.	Define a Structure. Explain the syntax of structure declaration in C with example.	08	L2	CO2

OR

Q.10	a.	Explain the following with an example with respect to structures. i) Structure name ii) Members of structures iii) Accessing a structure	10	L2	CO2
	b.	Develop a program to compute the mean, variance and standard deviations of 'n' numbers using pointer.	10	L2	CO2
