

CBCS SCHEME

MMC101



First Semester MCA Degree Examination, Dec.2025/Jan.2026
Programming and Problem Solving in C

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.	Explain the structure of C program.	06	L1	CO1
	b.	Explain the uses of C language.	08	L1	CO1
	c.	Write the key words of C language.	06	L2	CO1
OR					
Q.2	a.	Explain conditional statements with examples.	12	L2	CO1
	b.	Explain with example loops in C programming.	08	L2	CO1
Module – 2					
Q.3	a.	Differentiate between 1-D and 2 D arrays. Explain with example.	10	L2	CO2
	b.	Write C program to multiply two matrices& display the result in transpose form.	10	L2	CO3
OR					
Q.4	a.	Define string. Explain taxonomy of the string.	08	L2	CO3
	b.	Explain the operations on string.	05	L3	CO3
	c.	Write a C program search element in an array using linear search.	07	L3	CO3
Module – 3					
Q.5	a.	Define a Function. Differentiate between call by value and call by reference.	08	L2	CO4
	b.	Write a C program to generate the Fibonacci numbers using recursive function.	07	L3	CO4
	c.	Write a C program to swap two numbers without using temp variable.	05	L3	CO4
OR					
Q.6	a.	Write a C program to find the mean of N numbers using arrays and pointers	10	L3	CO3,CO2
	b.	Write a C program to add two matrices using pointers.	10	L3	CO3
Module – 4					
Q.7	a.	Define Structure. Give syntax of Structure.	05	L2	CO5
	b.	Write a C program using structure to read and display student information.	10	L3	CO5
	c.	Explain nested structure with example	05	L2	CO5
OR					
Q.8	a.	Define Union. Explain the syntax of Union with example.	05	L2	CO5
	b.	Explain the various storage classes	10	L3	CO5
	c.	Write a short note typedef	05	L2	CO5
Module – 5					
Q.9	a.	Define a File. List and explain the operations on file	10	L2	CO1
	b.	List and describe the file modes.	10	L2	CO1
OR					
Q.10	a.	List and explain functions for Reading strings.	10	L2	CO1
	b.	List and explain functions for Writing strings.	10	L2	CO1

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