Model Question Paper- I

CBCS SCHEME

First/ Second Semester B.E Degree Examination, 2025-26

Introduction to C Programming (1BPLC105E/205E)

TIME: 03 Hours **Max.Marks:100**

Notes:

1. *Answer any FIVE full questions, choosing at least ONE question from each MODULE*
2. *M: Marks, L: Bloom's level, C: Course outcomes.*

		Module -1	M	L	C
Q.01	a	Define algorithm. Outline an algorithm to convert temperature from Fahrenheit to Celsius.	8	L2	CO1
	b	Define functions. Explain basic structure of a C Program.	5	L2	CO1
	c	Explain Input and Output functions in C Programming with suitable example	7	L2	CO1
		OR			
Q.02	a	Explain the role of flow chart in program development. List the symbols used in designing a flowchart. Illustrate with one example.	8	L2	CO1
	b	List the features of C programming language. Explain the process of compiling and executing a C Program.	5	L2	CO1
	c	Define Identifier. List the rules for framing an identifier with an example to each rule.	7	L2	CO1
		Module-2			
Q. 03	a	Explain the following operators i) Increment and Decrement operators. ii) Logical Operators	8	L2	CO1
	b	Explain the else if ladder with syntax and a suitable program.	6	L2	CO2
	c	Outline the syntax of switch statement. Given an integer between 1 to 7 representing the day of week, develop a program to display day in words using switch statement [E.g. for a number 1, print Sunday and for number 7, print Saturday]	6	L3	CO2
		OR			
Q.04	a	Show the evaluation order of the following expression with intermediate and final values: 100/20<=10-5+100%10-20==5>=1!=20	8	L2	CO1
	b	Differentiate between entry controlled loop and exit controlled loop.	6	L2	CO2
	c	Develop a C program to find the sum of first n numbers using while loop.	6	L3	CO2
		Module-3			
Q. 05	a	Define string. Develop a program to read a string, reverse the string and print.	6	L3	CO3
	b	Define array. List and explain the types of arrays.	6	L2	CO3
	c	Develop a program to multiply two N*N matrices.	8	L3	CO3
		OR			
Q. 06	a	Develop a program to find the length of a string without using built in function.	6	L3	CO3
	b	Explain declaring and initialization one, and two-dimensional arrays with suitable examples.	6	L2	CO3
	c	Develop a program to read N numbers and find the sum and average of N numbers using an array.	8	L3	CO3
		Module-4			
Q. 07	a	Define function in C. Justify the need of user defined functions in C with a suitable program.	8	L2	CO4
	b	Explain with example "No arguments and no return values" of functions.	6	L2	CO4

	c	Develop a C program to perform arithmetic operations (+, -, /, *) using user defined functions.	6	L3	CO4
OR					
Q. 08	a	List and Explain the various elements of user defined functions.	8	L2	CO4
	b	What is nested function? Explain with example.	6	L2	CO4
	c	Develop a suitable program having a function with arguments and no return value.	6	L3	CO4
Module-5					
Q. 09	a	Define structure. Explain the general format of a structure definition.	6	L2	CO5
	b	Define pointer. Illustrate declaring and initialization of a pointer variable.	6	L2	CO5
	c	Define a structure type student that would contain student name, 3 subject marks Using this structure, Develop a C program to read four students data from keyboard and print the same on the screen.	8	L3	CO5
OR					
Q. 10	a	Differentiate between arrays and structures with an example.	6	L2	CO5
	b	Illustrate with suitable code for swapping of two numbers using pointers.	6	L2	CO5
	c	Develop a program to copy and compare of structure variables.	8	L3	CO5