Semester: I	Department of ISE & CSE(AI)	AY: 2026-27
Course Code: 1BPLC105E	Course Name: Introduction to C Programming	

Question Bank

Q.	Module-01	M	L	C
1.	Define Algorithm. Develop an algorithm to find the average of three numbers taken as input from the user.	5	L2	CO1
2.	Define Variable? Explain the rules for constructing variables in C language. Identify whether the following variable is valid or in valid. State the reason for the same. (i) int, (ii) area, (iii) 20group_one, (iv) $type , (v) _ptr123	10	L2	CO1
3.	List the features of C programming language. Explain the process of Compiling and executing a C program?	6	L2	CO1
4.	Define Flow Chart. List the symbols used in designing a flowchart. Write a flow chart to calculate the area of circle?	6	L2	CO1
5.	Explain the basic structure of C program with a programming example?	10	L2	CO1
6.	Explain the input and output functions in C Programming with suitable example?	6	L2	CO1
7.	Define an algorithm. Develop an algorithm to find the largest of three numbers entered by the user.	6	L3	CO1
8.	Explain the different data types in C with suitable examples.	8	L2	CO1
9.	Explain the different types of constants and variables in C with suitable examples.	6	L2	CO1
10.	Write an algorithm and draw a flowchart to check whether a given number is even or odd.	8	L3	CO1
	Module-02			
11.	Define an operator. List different type of operators of C and explain five operators with an example?	10	L2	CO2
12.	Explain if else statement with syntax and suitable program?	6	L2	CO2
13.	Develop a C program to find the whether a given number is prime or not?	6	L3	CO2
14.	Differentiate between entry controlled loop and exit controlled loop?	6	L2	CO2
15.	Explain switch statement with syntax and a suitable program?	8	L2	CO2
16.	Develop a C Program to find the roots of quadratic equations.	6	L3	CO2

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17.	Explain the following operators (i) increment and decrement operator, (ii) logical operator.	8	L2	CO2
18.	Develop a C program to find the sum of first n numbers using while loop.	6	L3	CO2
19.	Explain the while, do-while, and for loops with syntax and suitable examples.	10	L2	CO2
20.	Develop a C program to find the factorial of a given positive integer using a loop.	8	L3	CO2
Module-03				
21.	Define Array? Demonstrate the declaration and different initialization methods of one-dimensional array with syntax and example?	7	L2	CO3
22.	Develop a C Program to find the key elements in array using linear search	8	L3	CO3
23.	Develop a program to multiply two N*N matrices.	8	L3	CO3
24.	Develop a program to read N numbers and find the sum and average of N numbers using an array	8	L3	CO3
25.	Explain the declaration and initialization of two-dimensional arrays with suitable syntax and examples	6	L2	CO3

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