USN | | | | | | | | | | |

EPESK204E

Second Semester B.E. Degree Examination, May 2026
INTRODUCTION TO C PROGRAMMING

TIME:3 hrs. Max.Marks:100

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

		Module-1	M	L	C
Q.1	a	Explain the basic components of a computer system with a neat diagram.	6	L2	CO1
	b	Define Algorithm, Flowchart, and Pseudocode. Write an algorithm to find the largest of three numbers.	7	L2	CO1
	c	Explain the structure of a C program with an example.	7	L2	CO2
		OR			
Q.2	a	Explain tokens in C with suitable examples.	6	L2	CO2
	b	Discuss data types in C and their significance.	7	L2	CO2
	c	Write a C program to demonstrate input and output statements.	7	L3	CO2
		Module–2			
Q.3	a	Explain different types of operators in C with examples	7	L2	CO2
	b	Describe type conversion and typecasting with examples.	6	L2	CO2
	c	Write a C program to check whether a number is even or odd using conditional statements.	7	L3	CO2
		OR			
Q.4	a	Explain different looping statements in C with syntax and examples.	7	L2	CO2
	b	Discuss break, continue, and goto statements with examples.	6	L2	CO2
	c	Write a C program to print Fibonacci series using loops	7	L3	CO2
		Module–3			
Q.5	a	Define functions. Explain function declaration, definition, and call with example	7	L2	CO5
	b	Explain recursion with an example program.	6	L2	CO5
	c	Write a C program to find factorial of a number using recursion	7	L3	CO5
		OR			
Q.6	a	Explain arrays in C with suitable examples.	6	L2	CO3
	b	Describe operations on arrays (searching and sorting)	7	L2	CO3
	c	Write a C program for matrix multiplication using two-dimensional arrays.	7	L3	CO3
		Module–4			
Q.7	a	Explain string handling functions in C with examples.	7	L2	CO4
	b	Discuss arrays of strings with an example.	6	L2	CO4

PROOF

	c	Write a C program to perform string concatenation without using library functions.	7	L3	CO4
		OR			
Q.8	a	Explain pointers and their declaration with examples.	6	L2	CO4
	b	Discuss passing arguments using pointers (call by reference).	7	L2	CO4
	c	Write a C program to swap two numbers using pointers.	7	L3	CO4
		Module–5			
Q.9	a	Define structures. Explain declaration and initialization with examples.	7	L2	CO4
	b	Explain arrays of structures and nested structures.	6	L2	CO4
	c	Write a C program to store student details and calculate average marks.	7	L3	CO4
		OR			
Q.10	a	Explain unions and their advantages with examples.	6	L2	CO4
	b	Describe enumerated data types in C.	6	L2	CO4
	c	Compare structures and unions with suitable examples.	8	L3	CO

*****

EPCET