

Code: 23ES1102

I B.Tech - I Semester – Supplementary Examinations - JULY 2024**INTRODUCTION TO PROGRAMMING
(Common for ALL BRANCHES)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.

2. Part-A contains 10 short answer questions. Each Question carries 2 Marks.

3. Part-B contains 5 essay questions with an internal choice from each unit. Each Question carries 10 marks.

4. All parts of Question paper must be answered in one place.

PART – A

1.a)	Write the syntax for conditional operator.
1.b)	List out any 3 features of C language.
1.c)	Demonstrate the use of nested-if control structure with an example.
1.d)	Explain any 3 string handling functions.
1.e)	Write the process of declaring and initializing a multidimensional array.
1.f)	State the definition of an unconditional control statement.
1.g)	Define a pointer-to-pointer.
1.h)	Write syntax of structure definition.
1.i)	What is the use of EOF()function?
1.j)	What do you mean by lifetime of a variable?

PART – B

				Max. Marks
UNIT-I				
2	a)	Write a short note on basic data types supported by the C language.		4 M
	b)	Develop a C program to find the biggest of given three numbers.		6 M
OR				
3	a)	Draw a flowchart for calculating simple interest.		6 M
	b)	Explain Basic Input and Output operations of C language.		4 M
UNIT-II				
4	a)	Illustrate the use of the following statements with an example i) If-else ii) Switch case		6 M
	b)	Develop a C-Language program to determine whether the given number is zero, positive or negative.		4 M
OR				
5	a)	Develop a C-Language program to find whether the given number is prime or not.		5 M

	b)	Compare and contrast entry and exit controlled loop statements of C-Language with an example.	5 M
UNIT-III			
6	a)	Develop a C program to read and print a matrix of size 3*3.	6 M
	b)	Write a short note on pre-defined string functions strcpy() and strrev(). Explain them with an example.	4 M
OR			
7	a)	Define an Array? Explain how to declare an Array in C-Language.	4 M
	b)	Develop a program to add corresponding elements of two arrays with same size.	6 M
UNIT-IV			
8		Describe pointers in detail (Definition, Declaration, Pointer Operators, Initialization and Usage) with an example.	10 M
OR			
9	a)	List out the differences between Structures and Unions in C with an example.	5 M
	b)	Explain dynamic memory allocation with an example.	5 M
OR			

UNIT-V

10	Explain different file handling functions in C language.	10 M
OR		
11	Explain briefly different types of functions with an example for each.	10 M