O.P.Code: 23CS0501	R23	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech. I Year I Semester Regular & Supplementary Examinations December/January-2024/2025

INTRODUCTION TO PROGRAMMING

(Common to All)

Time: 3 Hours **Max. Marks: 70**

PART-A

(Answer all the Questions **10 x 2 = 20** Marks)

1	a	Define with example any four operators in C.	CO1	L1	2M
	b	Describe input and output statements in C	CO1	L2	2M
	c	Compare while and do-while statement.	CO2	L4	2M
	d	Summarize break and continue keyword.	CO2	L2	2M
	e	Explain how to initialize the 1D array.	CO3	L2	2M
	f	Define String.	CO3	L1	2M
	g	Define void pointer.	CO4	L1	2M
	h	What is meant by structure and write the syntax for structure declaration.	CO6	L1	2M
	i	What is meant by call-by-value?	CO5	L1	2M
	j	List the different file operations in C.	CO6	L1	2M

PART-B

(Answer all Five Units **5 x 10 = 50** Marks)

UNIT-I

2	a	Define a pseudo code and explain with an example.	CO1	L1	5M
	b	Explain how to compile and execution of a program with neat diagram.	CO1	L2	5M

OR

3	a	What is meant by type conversion? Explain the different types conversion techniques with example.	CO1	L2	5M
	b	Differentiate Top-down and bottom-up approach.	CO1	L4	5M

UNIT-II

4	a	Differentiate While and Do-while loop with example.	CO2	L4	5M
	b	Construct a C Program to Perform Fibonacci series using for loop.	CO2	L6	5M

OR

5	a	Discuss about break and continues statements in C.	CO2	L3	5M
	b	Compose a C program to print following series * * * * * * * * * *	CO2	L6	5M

UNIT-III

6	a	List the different types of arrays.	CO2	L2	5M
	b	Explain the One-Dimensional array with example.	CO2	L1	5M

OR

7	a	Illustrate a C program to find reverse of a given string without using string handling functions.	CO3	L2	6M
	b	Summarize the following i) strcat ii) strcmp iii) strrev iv) strcpy.	CO3	L3	4M

UNIT-IV

8	a	How can pointer works on strings?	CO4	L2	6M
	b	Examine the access to address of the pointer with example.	CO4	L3	4M
		OR			
9	a	Apply and explain the concept of pointers to structure in a C program.	CO6	L3	5M
	b	Explain about nested structures.	CO6	L2	5M

UNIT-V

10	a	Distinguish between call by value and call by reference with an example programs.	CO5	L4	5M
	b	How to use Array as Function argument? Explain with an example program.	CO5	L1	5M
		OR			
11	a	Discuss - how to modify parameters inside functions using pointers.	CO5	L2	5M
	b	Compose a C program to swap two numbers using call by reference.	CO5	L6	5M

***** END *****