Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech I Year I Semester Supplementary Examinations Feb-2021
COMPUTER PROGRAMMING
(Common to all Branches)

Time: 3 hours   Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1	a	Write the structure of C program and explain	6M
	b	Draw the flow chart to find the roots of a quadratic equation for all the cases.	6M

OR

2	a	Draw the flow chart to find the root of a quadratic equation for all the cases	6M
	b	Write a C program to find the roots of a quadratic equation for all the cases.	6M

UNIT-II

3	a	Write a program to find sum of the individual digits of a given number.	6M
	b	Write a program to check whether the given number is palindrome or not.	6M

OR

4	List and explain loop control (or) iteration statements in C.		12M

UNIT-III

5	a	Write a C program to read and display a 3 by 3 matrix.	6M
	b	Write a C program to add 2 matrices of size n by n.	6M

OR

6	Explain the following string handling functions with example:		12 M
	a. strcpy() b. strcmp() c. strcat() d.strlen() e. strncat()		

UNIT-IV

7	a	Discuss about the different categories of functions.	6M
	b	Write a C program to illustrate call-by-value parameter passing technique	6M

OR

8	a	Explain the following C dynamic memory allocation functions with syntax and example a. malloc() b. calloc() c. realloc() d. free()	12 M

UNIT-V

9	a	How data elements are stored under unions, explain with example?	6M
	b	Write a C program to illustrate the concept of structure within structure.	6M

OR

10	Write a C program to count no.of characters, spaces, lines, words of a file.		12 M

*** END ***