Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year I Semester Regular Examinations January 2020
COMPUTER PROGRAMMING AND PROBLEM SOLVING

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	**a**	List out the notations used in flowchart and explain its usage in drawing the flowchart.	**6M**
	b	Design an algorithm to solve Fibonacci series.	**6M**

OR

2	What is a data type? Explain various data types in C with example program.	**12M**

UNIT-II

3	Discuss the following with example.	**12M**

i) For   ii) While   iii) do – While

OR

4	Explain Different kinds of operators with an example program.	**12M**

UNIT-III

5	**a**	How the strings are declared and initialized? Discuss.	**6M**
	b	Explain any three string handling functions with examples for each.	**6M**

OR

6	What is an array? Explain types of arrays with example Program.	**12M**

UNIT-IV

7	Define a function. Explain how to pass arrays as parameters to a function with Example program.	**12M**

OR

8	Explain about different storage classes and scope rules with examples.	**12M**

UNIT-V

9	**a**	Define union. Explain how to declare and initialize unions.	**6M**
	b	Differentiate between structures and unions.	**6M**

OR

10	Describe in detail various pre-processor directives.	**12M**

*** END ***