ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

II SEMESTER **COMPUTER SCIENCE** TIME:2Hrs/Week

CS-Ma1-2651(2) **PROBLEM SOLVING USING C** Marks:50

w.e.f. 2023-24 admitted batch (23AK) **PRACTICAL SYLLABUS**

1. A. Write a program to calculate simple & compound interest

2. Find the biggest of three numbers using C.

3. Write a c program to find the sum of individual digits of a positive integer.

4. A Fibonacci sequence is defined as follows: the first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence.

5. Write a c program to check whether a number is Armstrong or not.

6. Write a c program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.

7. Write a c program that implements searching of given item in given list

8. Write a c program that uses functions to perform the following: Addition of two matrices. Multiplication of two matrices.

9. Write a program for concatenation of two strings.

10. Write a program for length of a string with and without String Handling functions

11. Write a program to demonstrate Call by Value and Call by Reference mechanism

12. Write a Program to find GCD of Two numbers using Recursion

13. Write a c program to perform various operations using pointers.

14. Write a c program to read data of 10 employees with a structure of 1.employee id 2.aadar no, 3.title, 4.joined date, 5.salary, 6.date of birth, 7.gender, 8.department.

15. Write a Program to demonstrate dynamic arrays using Dynamic Memory Management functions

**Problem Solving using C**

Credits -1

**List of Experiments**

B. Write a C program to interchange two numbers.