



SASTRA

DEEMED TO BE UNIVERSITY



School of Computing

Second CIA Exam – December 2022

Course Code: CSE106

Course Name: Fundamentals of Computer Science

Duration: 90 minutes

Max Marks: 50

PART A

Answer all the questions

10 * 2 = 20 marks

1. Write the syntax for the for, while and do..while loops
2. Write a C program to find the factorial of a number using function
3. Construct a function "Large" which can accept three integer arguments and return the largest among them
4. What are the different storage classes in C
5. Define recursion
6. Write a C program which prints the 2nd, 5th, and 8th elements of an integer array which carries the values of {1,2,3,2,1,2,3,1,2,3}
7. Distinguish the difference between break and continue
8. Define the scope rules
9. Write a C program to print the reverse of a number using while loop
10. Construct a user defined function to find the largest element of an array

PART – B

Answer any two Questions.

2 * 10 = 20 Marks

11. Write a C program to create an arithmetic calculator using switch statement where all the case labels are in characters
12. Write a C program which prints all the odd numbers from 1 to N using while loop and prints all the Even numbers using for loop.
13. Write a C program which converts the decimal to binary conversion and decimal to Octal conversion using functions.

PART – C

Compulsory Question

1 * 10 = 10 Marks

14. Write a C program to perform matrix multiplication and matrix addition using functions