

 <p>SASTRA DEEMED TO BE UNIVERSITY</p>	<p>School of Computing Third CIA Exam – January 2023 Course Code: CSE106 Course Name: Fundamentals of Computer Science Duration: 90 minutes Max Marks: 50</p>
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PART A

Answer all the questions

10 * 2 = 20 marks

1. Write an algorithm to find the second biggest among three numbers
2. Write a program to add two numbers without using + operator
3. Distinguish the difference between type casting and type conversion
4. Write a C program to find the GCD of a given two numbers
5. What is recursion? Write the syntax of recursion
6. List the various functions comes under the "string.h" header file
7. Define Macro
8. Distinguish the difference between structure and union
9. What are the different modes in file processing?
10. What is file descriptor

PART -- B

Answer any two Questions.

2 * 10 = 20 Marks

11. Write a C program to create an arithmetic calculator using a switch. Every case must call a function which accepts address of a variables
12. Write a C program to create an array of structures with members Name, rollno, department, CGPA for a class of 60 students.
13. Write a C program to copy the content from two files named "Bikes.txt" which contains 10 bike names, and "Cars.txt" which contains 10 cars name.

PART – C

Compulsory Question

1 * 10 = 10 Marks

14. Write a C program to satisfy the following constraints in main() function: Search a substring from a given string, Sort the following in Alphabetical order: **lswvairmcl**, Concatenate a two strings to create a new string, and Compare two strings with all the possible results