U.G. 3rd Semester Examination - 2021

COMPUTER SCIENCE

[HONOURS]

Generic Elective Course (GE)

Course Code : COM.SC-H-GE-P-101

(Programming using C Lab)

[PRACTICAL]

Full Marks : 20 Time : 2 Hours

Distribution of Marks:

Experiment : 10

Notebook : 5

Viva : 5

Answer any one question to be allotted on lottery basis.

Each question carries 10 marks.

1. Write a C program to calculate simple and compound interest.
2. Write a C program to swap values of two variables with and without using third variable.
3. Write a C program to find the roots of a quadratic equation.
4. Write a C program to input two numbers and display the maximum number.

5. Write a C program to display the size of every built-in data type using "sizeof" operator.
6. Write a C program to check whether a number is prime or not.
7. Write a C program to check whether the entered year is leap year or not (a year is leap if it is divisible by 4 and divisible by 100 or 400.)
8. Write a C program to check whether a number is Armstrong or not.
9. Write a C program to find the factorial of a number.
10. Write a C program to determine whether the input character is capital or small letter, digits or special symbol.
11. Write a C Program to sort the array in an ascending Order.
12. Write a C program to perform addition of two matrices.
13. Write a C program to copy the contents of one file to another.
14. Write a C program to reverse the first n characters in a file.
15. Write a C program to multiply two matrices.

16. Write a C program to generate the first n terms of the Fibonacci sequence where n will be taken as input.

17. Write a C program to find the sum of individual digits of a given positive integer.

18. Write a C program to perform arithmetic operations addition, subtraction, multiplication and division using switch statement.

19. Write a C program to create, declare and initialize structure.

20. Write a C program to check whether a number is palindrome or not.

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