2022

BCA

[HONOURS]

(CBCS)

(B.Sc. First Semester End Examination-2022)

PAPER-C1P (Practical)

[Programming Fundamentals]

Full Marks: 20   *Time: 02 Hrs*

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

Answer any one question   20x1=20

1. Write a program in C to print the sum and product of digits of an integer number.

2. Write a program in C to print the maximum and minimum element of an array.

3. Write a program to implement multiple inheritance.

4. Write a program in C to check whether a given string is palindrome or not. (without using strrev ( )).

5. Write a C++ program to overload the assignment (=) operator.

6. Write a C++ program to find area of square, circle and rectangle using function overloading.

7. Write a program in C to compute the factors of a given number.

8. Write a program in C to print the array in reverse order.

9. Write a program in C to calculate sum of two matrix.

10. Write a C++ program to overload the '++' and '- -' operator.

11. Write a program in C++, to create a class Box containing with length, breath and height calculate the valume of Box.

12. Write a program in C to calculate factorial of a number using recursion.

13. Write a program in C to calculate number of vowels in a given string.

14. Write a programin C++ to implement virtual function.

15. Write a program in C to display Fibonacci series using iteration.

16. Write a program in C to reverse a number.

17. Write a program in C++ to complete the sum of the first n terms of the following serease –

$$s = 1 + 1/2 + 1/2 + \ldots\ldots\ldots$$

18. Write a program in C to remove the duplicate from the array.

19. Write a program in C, using function to check wheather a given number is prime or not.

20. Write a program in C to calculate GCD of two numbers.

21. Write a C program to calculate the sum of first n term of the series below :

$$\frac{1}{11} + \frac{2}{21} + \frac{3}{31} + \frac{4}{41} + \ldots\ldots$$

22. Weite a C program to find the addition of two 3 X 3 matrices.

23. Weite a C++ program to overload '+' to perform addition of two complex numbers.

24. Weite a C++ program to demonstratrate multilevel inheritance.

25. Weite a C++ program to display Fibonacci series using iteration.