



University of North Bengal

BScGeneral Part II Examination,2021

CMSSG Paper VI – Programming in C (LAB)

Time allotted: 2hr

Full marks: 50

All figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

Answer any TWO questions from the following

1. A) Write a c program to check whether a given number is a perfect number or not.

Test Data :

Input the number : 56

Expected Output :

The positive divisor : 1 2 4 7 8 14 28

The sum of the divisor is : 64

So, the number is not perfect.

- B) Write a c program to find the perfect numbers within a given number of range.

Test Data :

Input the starting range or number : 1

Input the ending range of number : 50

Expected Output :

The Perfect numbers within the given range : 6 28

10+15

2. A) Write a C program to determine whether a given number is prime or not.

Test Data :

Input a number: 13

Expected Output :

13 is a prime number.

- B) Write a program in C to display the first n terms of Fibonacci series.

Test Data :

Input number of terms to display : 10

Expected Output :

Here is the Fibonacci series upto to 10 terms :

3. A) Write a program in C to display the number in reverse order.

Test Data :

Input a number: 12345

Expected Output :

The number in reverse order is : 54321

B) Write a program in C to check whether a number is a palindrome or not.

Test Data :

Input a number: 121

Expected Output :

121 is a palindrome number.

10+15

4. A) Write a program in C to convert a binary number into a decimal number.

Test Data :

Input a binary number :1010101

Expected Output :

The Binary Number : 1010101

The equivalent Decimal Number : 85

B) Write a program in C to sort elements of array in ascending order.

Test Data :

Input the size of array : 5

Input 5 elements in the array :

element - 0 : 2

element - 1 : 7

element - 2 : 4

element - 3 : 5

element - 4 : 9

Expected Output :

Elements of array in sorted ascending order:

2 4 5 7 9

10+15

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