

2019

3rd Semester Examination

COMPUTER SCIENCE (Honours)

Paper - GE3P

(C/C++ Programming Lab)

[Practical]

SET-I

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Answer *any one* question on lottery basis. 1×15

1. Write a program in C/C++ to find the prime factors of an integer.
2. Write a program in C/C++ to find

$$\cos(x) = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \frac{x^6}{6!} + \dots$$

3. Write a program in C/C++ to display all non-Fibonacci numbers between two specified range.
4. Write a program in C/C++ to display

```
      *
    * * *
  * * * * *
* * * * * * *
  * * * * *
    * * *
      *
```

5. Write a program in C/C++ to check whether a matrix is skew symmetric or not.
6. Write a program in C++ to read 10 records about account holders of a bank and display them using array of objects.
7. Write a program in C/C++ to find the determinant of a matrix.
8. Write a program in C/C++ to find the division of two complex numbers.
9. Write a program in C/C++ to find the x^n using recursive function.
10. Write a program in C/C++ to create a memory for n integer data, then put some data in it and again resize it and update the value.

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Answer any one question.

Perform any one question (Lottery basis) : $15 \times 1 = 15$

1. Write a programme in C/C++ to determine whether a given number is armstrong or not armstrong. 15
2. Write a programme in C/C++ to find divisor of a given number. 15

[Turn Over]

3. Write a programme to print all odd numbers between m and n. 15
4. Write a C/C++ programme to convert a decimal number to binary number. 15
5. Write a C/C++ programme to print the following pattern. 15

1

1 2

1 2 3

1 2 3 4

6. Write a C/C++ programme to compute the first n terms of the following series. 15

$$S = 1 + 2 + 5 + 10 + 17 + \dots$$

7. Write a programme in C/C++ to find out difference of two matrices. 15
8. Write a C/C++ programme to find the sum of all numbers between 1 to 100 that are divisible by P.
9. Write a C/C++ program to calculate the sum of square of the digit of given number, for example. 15

Say $n = 325$

$$\text{then } S = 3^2 + 2^2 + 5^2$$

10. Write a program in C/C++ to test the 10th place digit of a number (where the numbers is more than 2 digits) is even or odd. 15

Labortory Note Book 2

Viva-voce 3
