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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.

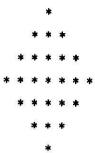
Answer any one question on lottery basis.

 $1 \times 15$ 

- 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.
- Write a program in C/C++ to find the x<sup>n</sup> 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.

Viva -03, LNB-02

2019

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(C/C++ Programming Lab)

[Practical]

SET-II

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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
- Write a programme in C/C++ to find divisor of a given number.

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

  15
  - 1 2 1 2 3

1

- 1 2 3 4
- of the following series. 15 S = 1 + 2 + 5 + 10 + 17 + ...

6. Write a C/C++ programme to compute the first n terms

- Write a programme in C/C++ to find out difference of two matrices.
- 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 = 3 2 5

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.
Labortory Note Book
Viva-voce
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