2018

CBCS

1st Semester

COMPUTER SCIENCE

(Honours)

PAPER—C1P

(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Programming Fundamentals using C/C++

Set–1

Answer any *one* question (Lottery basis).

1. Write a program in C to determine if an integer is palindrome or not.

2. Write a program in C to check if a year is Leap Year or not.

3. Write a program in C to find the sum of first n natural numbers.

4. Write a program in C to compute ^nC_r where the values of n and r should be provided at runtime.

(Turn Over)

5. Write a program in C to swap the values of two integer variables by the method of 'Call by reference'.

6. Write a program in C++ to demonstrate function overloading.

7. Write a program in C++ to overload increment operator.

8. Write a C/C++ program to compute the sum of first 10 digit of the following series,

$$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \cdots$$

9. Write a program in C/C++ to print a triangle of stars as follows (take number of rows from the user as an input),

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

10. Write a C program to calculate GCD of two numbers using recursion.

Laboratory Note Book — 2

Viva-voce — 3

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Programming Fundamentals using C/C++

Set–2

Answer any *one* question (Lottery basis).

1. Write a program in C to calculate the factorial of an integer.

2. Write a program in C to reverse in integer.

3. Write a program in C to find the factors of an integer.

4. Write a program in C to swap the values of two integers using pointers.

5. Write a program in C++ to demonstrate multilevel inheritance.

6. Write a program in C++ to reverse a string.

7. Write a program in C++ to compute $^{n}P_{r}$.

8. Write a C/C++ program to compute the sum of first 10 terms of the following series,

$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \cdots$$

9. Write a C/C++ program to check whether a given 5 digit number is Palindrome or not.

10. Write a C program to find the maximum of two given numbers, using Macro.

Laboratory Note Book — 2

Viva-voce — 3

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