

2015

BCA

4th Semester Examination

C++ LAB

PAPER—2296 (SET-2)

(Practical)

Full Marks : 100

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.

Illustrate the answers wherever necessary.

Answer any two questions (on Lottery Basis) : 2×25

- 1. Write a C++ program to convert degree to radian using class to class type.**
- 2. Write a C++ program to display student details using single inheritance.**
- 3. Write a C++ program to implement stack using array.**
- 4. Write a C++ program to print first 100 non-Fibonacci numbers which are prime.**

(Turn Over)

5. Write a C++ program to read / write the contents to/from a file.
6. Write a C++ program to draw a rectangle, square and circle using multiple inheritance with virtual function.
7. Given a string S ("1 2 3 4 5 6 7 8 9"). Write a C++ program to print the following :

```

          1
        2 3 2
      3 4 5 3 4
    4 5 6 7 6 5 4
  5 6 7 8 9 8 7 6 5

```

8. Write a C++ program that performs this series :

$$S = 1 + \frac{1}{2!} + \frac{1}{3!} + \frac{1}{4!} + \dots + \frac{1}{n!}$$

When n is entered from the keyboard.

9. Write a C++ program that takes a number and print the number digit by digit in words using inline member functions.

[Ex. 123 → one two three]

10. Write a C++ program that reads several city names from the keyboard and displays only those names beginning with characters 'B' or 'C'.

11. Write a C++ program to convert a decimal number into hexadecimal number.
12. Write a C++ program to read a square matrix and displays its transpose.
13. Write a C++ program to implement pure virtual function.
14. Write a C++ program to convert a binary number to a decimal number.
15. Write a C++ program to implement the functionalities of a copy constructor.

Practical Note Book : 10

Viva-Voce : 10

Internal Assessment : 30
