2296/(Pr)(Set-I)

2019

BCA

4th Semester Examination

C++ Lab

Paper - 2296

(Practical)

(Set - I)

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.

GROUP-A

Answer any **one** question : (on lottery basis)

nrima

- Write a C++ program to display all the prime numbers between 1 and 150.
- Write a C++ program to compute GCD of three numbers. Display your output.

P.T.O.

- Write a C++ program to compute ⁿC_r where 'n' and 'r' are user inputs.
- 4. Write a C ++ program to display all the Fibonacci number between 1 and 100.
- 5. Write a C++ program to check if a string is palindrome or not.
- 6. Write a C++ program to display the following triangle:

You should give number of lines to display as input.

7. Write a C++ program to display the following triangle:

The no. of lines to be displayed is to be read from key board.

10. Write a C++ program to read a set of number from keyboard and short them in descending order.
Group - B
Answer any one question: (on lottery basis)

Write a C++ program to read a text file and

Write a C++ program to read two matrices from keyboard and display the result of their multiplication if they are multiplication compatible.

display the content of this file in monitor.

8.

9.

- 25×1
 11. Write a C++ program to overload operator to subtract two matrics of same order.
 12. Write a C++ program to overload * operator that
- 12. Write a C++ program to overload * operator that multiplies two matrices that are compatible for multiplication.
 13. Write a C++ program to overload ~ operator that
- reverses a string.

 14. Define a class to represent time (How :Minute : Second) in 24 Hour format . Write a C++ program to read two times and add them.
- program to read two times and add them.

 15. Write a C++ program to define a date (Date, month, year) class with constructor. Initialize two dates using constructor and check if they belong to same year.

3

BCA/2296/(Pr)(Set-I)

P.T.O.

- 16. Write a C++ program that uses inline function to count no. of vowels in a string.
- Write a C++ program that uses copy constructor to initialize matrix, and then compute transpose of this matrix.
- 18. Write a C++ program to demonstrate single inheritance that uses protected access specifier.
- Writer a C++ program to demonstrate multiple inheritance that uses both public and private access specifier.
- Write a C++ program to demonstrate hybrid inheritance that uses both public and protected access specifier.

PNB \rightarrow 05 Marks Viva \rightarrow 15 Marks

[Internal Assessment – 30 marks]