# KN-285

## BCA (Part-III) Examination, 2022

## B.C.A.
## ( Programming in Java )

### *Time Allowed : Three Hours*

### *Maximum Marks : 100*

### *Minimum Passing Marks : 33*

**Note :** Attempt **all five** units. **One** question from each unit is **compulsory**. All questions carry **equal** marks.

### Unit-I

1. Discuss the OOPs features of Java. Explain various data types of Java with size and range. [20]

OR

What do you mean by class? Explain wrapper class and string class with suitable example.

## Unit-II

2. Discuss the concept of final and super in inheritance. Write a program to find the area of circle using final keyword. [20]

### OR

What is Interface? Write a program to print your name with the help of Interface.

## Unit-III

3. Write a program to swap two numbers without using any third variable with Try-catch block. [20]

### OR

Write the steps of creating a user defined thread. Discuss resume() and suspend() method with suitable example and program.

## Unit-IV

4. Discuss various methods of I/O package for reading and writing from console and files. [20]

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**OR**

What is Socket? Explain TCP/IP client and server socket with suitable example and program.

**Unit-V**

5. Write source code for creating single applet for multiplication of two numbers. [20]

**OR**

What is AWT? Discuss Delegation Event Model with suitable example.

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