Roll No.

DD-2874 (SE)

B. C. A. (Part III) NS.II EXAMINATION, 2020

Paper Fourth PROGRAMMING IN JAVA

Time : Three Hours Maximum Marks : 100 Minimum Pass Marks: 40

Note : Attempt any two parts from each Unit. All questions carry equal marks.

Unit—I

- Compare the String and StringBuffer classes in Java 1. (a) on the basis of their use and methods provided. Write a small program to show the use of StringBuffer.
 - (b)What is the major difference between twodimensional arrays in C++ and Java ?
 - Write a java program to read the elements of an (c) integer array as input from the user and print the sum of all elements of the array.

Unit—II

2. (a) What is the use of Interfaces in Java?

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- (b) How are packages helpful in software development using Java ? A programmer wants to use a class SomeClassName present in the package java.XXX.YYY. Which of the following two import statements is more efficient way of doing this ?
 Import java.XXX.YYY.SomeClassName;
 Import java.XXX.YYY.*;
- (c) Demonstrate the use of "super" and "this" keyword in java using a java program. The program should be well documented with proper comments.

Unit—III

- 3. (a) Write a Java code to create two threads—one for printing multiples of 3 (3, 6, 9, up to 60) and the other for printing multiples of 5 (5, 10 15 ... up to 100).
 - (b) What is finally lock used for in Exception Handling ?Which code should be written in the finally block ?
 - (c) Write a java program to create a scenario that will raise an "Arithmetic Exception" exception. The program should be well documented with proper comments.

Unit—IV

- 4. (a) Write a java program to read a text file from the local file system and display its contents.
 - (b) With the help of a diagram, explain the architecture and working of JDBC as a bridge between java applications and external databases.
 - (c) What is the use of the URL class in Java ? Explain the constructors of this class.

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Unit—V

- 5. (a) Write a java program to create an Applet that will display the text "Welcome to Java" on the screen in Red colour.
 - Draw and explain the applet life cycle. (b)
 - List and explain the methods of KeyListener (c)

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