

# C971

Total Pages : 3

Roll No. ....

## MCA-16/M. SC (IT)-13

### Programming in Java

Master of Computer Applications/ Master of Science in  
Information Technology (MCAMSc.IT-11/12/16/17)

Fourth Semester Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### SECTION–A

#### (Long Answer Type Questions)

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Explain the component of JVM with neat diagram. Explain the features of JAVA also.

2. Explain the following terms: Applet viewer, CSS, Super and final, AWT, Swing.
3. Explain the following terms with respect to exception handling. Also write the example for everyone: Try, Catch, Throw, Finally.
4. Explain the JDBC architecture and JDBC drivers.
5. Explain with example the comparison of swing and AWT control in JAVA.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Give the practical example where you will find it suitable to implement polymorphism.
2. What is the difference between C++ and JAVA?
3. Write a simple JAVA program to calculate the number of objects created by a particular class.
4. Explain the difference between overloading and overriding in JAVA through a suitable example.

5. Explain the primitive data types with example in JAVA. Explain their size, range and other details also.
  6. What is Applet? How it is differ from Application? Explain.
  7. Write a program to implement the concept of multilevel inheritance.
  8. Why do we need to use vectors? Explain with the help of an example.
-

