MCA-16/M.Sc.(IT)-13
Programming in Java

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

Fourth Semester

Examination, 2019

Time : 3 Hours   *[Maximum 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 Fifteen (15) marks each.
Learners are required to answer any three (03)
questions only.   **(3×15=45)**

1. What are various techniques to handle
Exceptions in Java? Explain with example.

2. Explain the different type of loop in Java pro-
gramming language? Briefly explain with their
examples.

3. What is Polymorphism? Explain the
difference between method overloading and
method overriding with the help of example.

4. What is an exception? How is it different from
an error? Is it possible to include your own
exception in a proprain?

5. Explain the following :   (5 marks each)

   (a) IDBC

   (b) AWT

   (c) Applets

Section–B

(Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-
type questions of Seven (07) marks each.
Learners are required to answer any Five (05)
questions only.   **(5×7=35)**

1. What is object-oriented programming?
Explain the benefits of OOP.

2. What are the various data types available in Java? Explain.

3. Explain the JVM (Java Virtual Machine)?

4. What is a package? Explain its functions?

5. Explain the File Handling in Java?

6. What is Inheritance ? Explain the different forms of inheritance in Java?

7. Explain the swings and its components?

8. Write short notes on the following :

(3½ marks each)

(a) Message passing.

(b) Java keyword.