Roll No. ....

M.Sc.(IT)-10(Master of Science in Information Technology)

Fourth Semester, Examination-2014

MIT-4003

Advance Java Programming

Time Allowed : Three Hours

Maximum Marks : 60

Note : **This paper is of sixty (60) marks divided into three (03) sections. Learners are required to attempt the questions contained in these sections according to the detailed instructions given therein.**

Section - A

(Long answer type Questions)

Note : **Section 'A' contains four (04) long-answer-type questions of fifteen (15) marks each. Learners are required to answer any two (02) questions only.** **(2×15=30)**

1. What is an exception in Java? What is the use of try.........catch and finally block in exception handling. Explain by giving an example.

2. What is a thread? Describe complete life cycle of a thread. Give two ways by which a thread can be created using java. Explain by giving example.

3. What do you understand by JDBC/ODBC Bridge? Discuss the connectivity to remote database and navigating through multiple rows retrieved from a database with an example.

4. What is the difference between JSP and Servlets? What do you mean by centralized request processing using a servlet? Write a servlet that just display "Welcome" string.

Section - B

(Short answer type Questions)

Note : Section 'B' contains eight (08) short-answer-type questions of five (05) marks each. Learners are required to answer any four (04) questions only. **(4×5=20)**

1. What is the difference between AWT and Swing?

2. What is XML? Why is it used? Explain by giving an example.

3. What is applet in Java? Explain by giving an example.

4. Describe the term HTTP request/response model.

5. What is a Java bean? What is the use of Java bean in Web Programing?

6. How will you access database from a JSP page? Give example.

7. What do you mean by priority based multithreading? Explain.

8. What is the difference between file Input Stream and File output stream? Explain.

Section - C

(Objective type Questions)

Note : Section 'C' contains ten (10) objective-type questions of one (01) mark each. All the questions of this section are compulsory.

(10×1=10)

1. Java is a procedural language.

   a. True   b. False

2. Size of int data type in java is 2 byte.

   a. True   b. False

3. Java is a portable language.

 a. True b. False

4. Constructor is a feature provided by java.

 a. True b. False

5. Applet can perform arithmetic operation play sound and display graphics.

 a. True b. False

6. Java language support pointers.

 a. True b. False

7. Packages are containers for classes.

 a. True b. False

8. Java is a platform independent language.

 a. True b. False

9. JSP stands for Java Server Page.

 a. True b. False

10. Java does not support multiple inheritances.

 a. True b. False