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**M.Sc. IT- 10 ( MASTER OF SCIENCE IN INFORMATION TECHNOLOGY)  
Fourth Semester - Examination 2012  
MIT – 4003  
Advance Java programming**

**Time :- 3 Hours**

**Max. Marks : 60**

**Note- The question paper has been divided in to three sections A, B and C. Answer the question as per the Instruction given in each section.**

**Section- A  
(Long Answer questions)**

**Answer any two questions. Each question carries 15 Marks.**

**(2x15 = 30 Marks)**

- Q.1 (a) Write the features of java language in detail.  
(b) In java how you will implement polymorphism? Show with examples and also write the use of interfaces.
- Q-2 (a) What are Java exceptions ? Write about different types of exceptions and also show the use of exceptions handling in java program.  
(b) What are file stream ? Explain all file streams with suitable examples .
- Q-3 (a) Explain how packages defined in Java. Also show the designing of user defined packages  
(b) What are servlets in Java ? Show the life cycle of a servlet and design one simple servlet in Java.
- Q-4 (a) What are Java beans ? How you will create a bean and how you can use a bean in JSP page ? Write the program .  
(b) Define multithread model and write an animation program using applets and threads

**Section- B**  
**(Short Answer questions)**

**Answer any four questions. Each question carries 5 Marks.**

**(4x5= 20 Marks)**

- Q.1 Write a AWT program to add two numbers .
- Q-2 Write a program to show the use of thread priorities .
- Q-3 Use HTML applet tag to use an applet in a HTML file .
- Q-4 Use Java AWT graphics classes to draw a circle and print hello inside the circle .
- Q-5 Design a simple JSP page to display current date and time from system .
- Q-6 Write steps to install TOMCAT server in your machine.
- Q-7 What are XML file ? Show the use of XML in JSP pages.
- Q-8 What is session bean ? Explain with examples .

**Section- C**  
**Objective questions (Compulsory)**

**Attempt all questions. Each question carries 1 Marks.**

**Write true / false against the following**

**10 x 1 = 10Marks**

- Q.1 Java is a objects based language . (True/False)
- Q-2 JVM is a part of JSP web pages . (True/False)
- Q-3 XML used to display data base type records in web pages . (True/False)
- Q-4 A webserver store the servlets designed in Java. (True/False)
- Q-5 Beans are dynamic Java components . (True/False)
- Q-6 Byte a valid data type in Java . (True/False)
- Q-7 File streams are used to connect with data base . (True/False)
- Q-8 JDBC is Oracle data base driver . (True/False)
- Q-9 In Java you can use operator overloading . (True/False)
- Q-10 Generic classes are part of Java. (True/False)