

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII • EXAMINATION – SUMMER 2013****Subject Code: 170703****Date: 28-05-2013****Subject Name: Advance Java Technology****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) What do you mean by MVC architecture? Explain its role in modern applications and list its advantages. **07**

(b) Explain the use of the PreparedStatement object of the JDBC with an appropriate example. **07**

Q.2 (a) Answer the following questions. **07**

1. Compare the AWT and Swing.
2. Explain the JDBC URL with appropriate examples.

(b) Write an RMI program to echo the message send by the client to the RMI server object. **07**

OR

(b) Write a client-server program using TCP sockets to echo the message send by the client. **07**

Q.3 (a) Describe the following. **07**

1. Remote reference layer in RMI architecture.
2. Use of the URL class.

(b) Describe the servlet life cycle with life cycle methods. **07**

OR

Q.3 (a) Give the characteristics of the HTTP protocol and explain the GET, HEAD and PUT methods of the HTTP protocol. **07**

(b) Give an example showing the use of EL functions. **07**

Q.4 (a) Write a Web application using servlet to find the sum of all the digits of an input integer. **08**

(b) What is XML tag library? Explain the XML core tags and show their use. **06**

OR

Q.4 (a) Write a JSP page to display your semester mark sheet. Give the necessary files to deploy it. **08**

(b) What is doFilter() method? What are its parameters? Give its use with proper example. **06**

Q.5 (a) Explain the action tags used to access the JavaBeans from a JSP page with example. **07**

(b) Explain the OR mapping in hibernate. **07**

OR

Q.5 (a) Explain the container architecture of the Java EE with role of each component. **07**

(b) What is HQL? How does it differ from SQL? Give its advantages. **07**
