

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**

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