

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- VII<sup>th</sup> SEMESTER–EXAMINATION – MAY/JUNE- 2012****Subject code: 170703****Date: 09/06/2012****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) Answer the following questions w.r.to Swing. **07**  
i. What is pluggable look and feel? How do you set the look and feel of the components?  
ii. Give the limitations of AWT and explain how do Swing overcome them.
- (b) What is JDBC driver? What is its role? List the types of drivers and explain working of type-4 driver. Give the different ways to create the JDBC connection with example. **07**
- Q.2** (a) What is Callable statement? Write a procedure to insert a row into the table student(roll\_no,name,%ge) and call it using callable statement in JDBC application. **07**
- (b) Explain the following classes with their use. **07**  
i. URLConnection class  
ii. DatagramSocket and DatagramPacket class
- OR**
- (b) Give the advantages of n-tier architecture and discuss the objectives of the Enterprise applications. **07**
- Q.3** (a) What is RMI? Give the architecture of RMI and discuss the functions of each layer. What is role of RMI registry? **07**
- (b) What is filter? What is its use? List the different filter interfaces with their important methods. **07**
- OR**
- Q.3** (a) What is serialization/deserialization of objects? Why do you need it? Give the example with necessary code. **07**
- (b) List the servlet session level events and show that how servlet destroy event is handled? **07**
- Q.4** (a) Write a servlet which counts the number of digits into an integer received as parameter. Give the necessary web.xml file to deploy the servlet. **07**
- (b) Explain the JSP implicit objects with their use. **07**
- OR**
- Q.4** (a) Write a JSP page that prints your resume in well formatted form. **07**
- (b) Explain the servlet life cycle with life cycle methods. **07**
- Q.5** (a) What are cookies? Write a servlet that reads and prints all the previous cookies and add a cookie with your name. **07**
- (b) Explain the features of core tag library for JSP. **07**
- OR**
- Q.5** (a) Explain the following with respect to JSP Unified EL. **07**  
i. Value expressions  
ii. Method expressions
- (b) Give the hibernate architecture and discuss each part in brief. **07**

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