Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- VIIth 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 **07**
working of type-4 driver. Give the different ways to create the JDBC connection
with example.

Q.2 **(a)** What is Callable statement? Write a procedure to insert a row into the table **07**
student(roll_no,name,%ge) and call it using callable statement in JDBC
application.
(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 **07**
Enterprise applications.

Q.3 **(a)** What is RMI? Give the architecture of RMI and discuss the functions of each **07**
layer. What is role of RMI registry?
(b) What is filter? What is its use? List the different filter interfaces with their **07**
important methods.
                                        OR
Q.3 **(a)** What is serialization/deserialization of objects? Why do you need it? Give the **07**
example with necessary code.
(b) List the servlet session level events and show that how servlet destroy event is **07**
handled?
Q.4 **(a)** Write a servlet which counts the number of digits into an integer received as **07**
parameter. Give the necessary web.xml file to deploy the servlet.
(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 **07**
and add a cookie with your name.
(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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