

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER-VII EXAMINATION WINTER 2017

Subject code: 170703

Date: 10-11-2017

Subject Name: Advance Java Technology

Time: 10:30 am to 01:00 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 is a role of MVC in designing multi tiered application? Explain technologies used at each tier. **07**
- (b) Discuss all possible clients for J2EE application along with J2EE architecture. **07**
- Q.2** (a) What is a role of Object Registry in RMI? Explain RMI architecture. **07**
- (b) Differentiate followings: **07**
- a. Applet Vs. Servlet
- b. Java Beans Vs. Simple Java classes
- OR**
- (b) Differentiate followings: **07**
- a. Swing Vs. AWT
- b. Web Server Vs. Application Server
- Q.3** (a) Explain JSP Core Tag library and SQL Tag library with examples. **07**
- (b) How do you make selection of various JDBC drivers? Explain various types of drivers with examples. **07**
- OR**
- Q.3** (a) What are the various layouts supported by Swing? **07**
- (b) How does java application call Stored Procedures from DBMS? Explain with example. **07**
- Q.4** (a) Write a connection-oriented client server application where the client sends any string from its standard input and the server program responds back with the reversed string. **07**
- (b) Write a database application to perform basic SQL operations using JDBC on table employee with attributes empno, name, designation, department and salary. **07**
- OR**
- Q.4** (a) Write one RMI application for banking to perform the deposit and withdrawal operations by client. Write steps to create an executable jar file for your application. **07**
- (b) Write a Servlet program which maintains a counter for the number of times it has been accessed since its loading. **07**
- Q.5** (a) What are various java technologies to connect with Databases? Explain Hibernate architecture for object-relational mapping. **07**
- (b) What is JNDI? Explain with example. **07**
- OR**
- Q.5** (a) Explain JSP directives with examples. **07**
- (b) How are the requests serviced by Servlets? Discuss Servlet life cycle methods. **07**

