

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VII • EXAMINATION – SUMMER • 2015**

**Subject Code: 170703**

**Date: 12/05/2015**

**Subject Name: Advance Java Technology**

**Time:02.30pm-05.00pm**

**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) Explain MVC Architecture in Details with Figure. **07**  
(b) What is JDBC? What are the various types of JDBC Driver? Write code snippet for each type of JDBC connection. **07**

**Q.2** (a) What is RMI? Give the architecture of RMI and discuss the functions of each layer. Also Explain RMI registry? **07**  
(b) Write short note on J2EE architecture. Explain various components. **07**

**OR**

(b) Explain Hibernate Architecture and Object Relation Mapping in Hibernate with java code and required XML files. **07**

**Q.3** (a) Explain Servlet Life Cycle with example to demonstrate every state. **07**  
(b) Explain JSP (i) page (ii) include (iii) taglib directive with attribute, description. Also write example of java snippet for each directive. **07**

**OR**

**Q.3** (a) Explain JSP Object scope: (i) Page (ii) Request (iii) Session (iv) Application with example. **07**  
(b) Discuss the Expression Language feature of JSP and mention various implicit objects available in the EL with description. **07**

**Q.4** (a) Write a Java Servlet to print BE Semester 7 Marksheet of entered enrollment number by user using JDBC. **07**  
(b) Explain various tags in JSTL with example : (i) Core (ii)XML **07**

**OR**

**Q.4** (a) Write JSP Page to demonstrate shopping cart using session feature of JSP. **07**  
(b) Explain various tags in JSTL with example : (i)SQL (ii) Functions **07**

**Q.5** (a) Write a Java Client and Server Program to get date time from server on the client request. **07**  
(b) List and explain various swing layouts and components with examples. **07**

**OR**

**Q.5** (a) List and explain various swing layouts and components with examples. **07**  
(b) What is filter? What is its use? List the different filter interfaces with their important methods. **07**

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