



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**B.TECH – SEMESTER – VII, IT**  
**SUBJECT: (IT 713) ADVANCE JAVA TECHNOLOGY**

**Examination : First Sessional**  
**Date : 07/08/2012**  
**Time : 12:30 to 1:45**

**Seat No. :**  
**Day : Tuesday**  
**Max. Marks : 36**

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**INSTRUCTIONS:**

1. Figures to the right indicate maximum marks for that question.
  2. The symbols used carry their usual meanings.
  3. Assume suitable data, if required & mention them clearly.
  4. Draw neat sketches wherever necessary.
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**Q.1 Do as directed.**

- (a) What is ResultSetMetaData ? Explain how to get its reference and also the different functions that are provided by it. [2]
- (b) What is dynamic class loading of stub file. [2]
- (c) What is the role of registry in RMI? [2]
- (d) Which functionality is provided by UnicastRemoteObject in RMI based program? [2]
- (e) What are the benefits of connection pooling? [2]
- (f) What is the difference between Web server and Application server? [2]

**Q.2 Attempt Any Two from the following questions.**

- (a) Write an RMI application where client sends student\_id and server returns corresponding student\_grade by querying database. [6]
- (b) Explain the use of Callable Statement and PreparedStatement with suitable example. [6]
- (c) What is JDBC driver? List the types of drivers and explain working of type-3 driver. Give the different ways to create the JDBC connection with example. [6]

- Q.3**
- (a) Discuss the importance of methods init, destroy, service, doGet and doPost in context of the servlet life cycle with diagram. [6]
  - (b) Consider Bank table with attributes AccountNo, CustomerName, Balance, Phone and Address. Write a database application which allows insertion, updation and deletion of records in Bank table. Print values of all customers whose balance is greater than 10,000. [6]

**OR**

- Q.3**
- (a) What is Updatable ResultSet? Explain the steps of creating Updatable ResultSet. Also show the process of updating record. [6]
  - (b) Write code to implement client-server chat application using RMI. [6]