

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

Examination : First Sessional Seat No.

Date 30/07/2013 Day : Tuesday Time Max. Marks : 36

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- 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.
- Draw neat sketches wherever necessary.

Q.1	Do	as	dire	ected.

(b)	JDBC-ODBC Bridge is multi-threaded. State True/False and Justify.	[2]
(c)	What is the difference between a Statement and a PreparedStatement?	[2]
(d)	What are the benefits of connection pooling?	[2]

(a) Write about responsibilities of Stub/Skeleton layer and remote reference layer.

- (e) What are the standard isolation levels defined by JDBC?
- [2] (f) What is the difference between .WAR and .EAR file? [2]
- 0.2 Attempt **Any Two** from the following questions.
 - (a) Describe the interaction between a client web browser, Http Server, Server Container [6] and Servlet with diagram, Also explain servlet lifecycle methods.
 - (b) Create RMI based client server application. The server stores students' exam result in an array. For each student, array maintains following information: StudentName, InternalExamMarks and ExternalExamMarks. The server provides two remote methods:getInternalMarks(StudentName) and getExternalMarks(StudentName). Create RMI server program and also create RMI client program to test the server. Show various steps we need to follow for whole development process.
 - (c) In context of RMI discuss following. [6]
 - Distributed Garbage Collection Algorithm. (i)
 - (ii) Dynamic stub downloading.
- Q.3 Attempt *ALL* from the following questions.
 - Write a servlet program which display system date of a server on the browser. [6]
 - What are the types of ResultSet in JDBC? Explain it with Example.

- Attempt ALL from the following questions. Q.3
 - (a) Consider Employee table with attributes empID, empName, empAdd and empPin. [6] Write a database application which allows insertion, updation and deletion of records in Employee table. Print values of all employees whose city name starting with Ahm. [**Note:** Use Type-4 Driver for connection]
 - (b) What is Metadata? Explain ResultSetMetaData and DatabaseMetaData?

[6]

[6]

[2]

[6]