



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

Examination	: First Sessional	Seat No.	:
Date	: 02/08/2016	Day	: Tuesday
Time	: 1:15 to 2:30 PM	Max. Marks	: 36

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) If a browser disables cookie mechanism, then also how does a servlet container can still track user's session? Write your answer with supporting example. [2]
- (b) What are differences between requesting forwarding and request redirecting with reference to web container's perspective and web client's perspective? [2]
- (c) Explain a situation in which *request scope* attributes can be used. [2]
- (d) What is the difference between `execute`, `executeQuery`, `executeUpdate`? [2]
- (e) Explain JDBC Driver types & its advantages. [2]
- (f) What are the standard isolation levels defined by JDBC? [2]

Q.2 Attempt Any Three from the following questions.

- (a) Draw and discuss life cycle of a servlet. Also discuss how a single servlet object can handle requests from multiple clients? [4]
- (b) Answer the following in brief.
Write difference between `ServletConfig` object and `ServletContext` object. [2]
Write difference between Persistent cookie and non-persistent cookie [2]
- (c) Suppose your web application wants to access `init` parameter and `context` parameter. [4]
Write appropriate code fragment for configuring `web.xml` file and also write code fragment that you need to write in the servlet to access both the parameters.
- (d) Write code fragment to generate HTML form containing person's name and age as parameters. On submitting this form a `welcome.do` servlet appears greeting the person with personalized message containing the information (person's name and age). [4]
- (e) With reference to the above question, suppose you want to access person's name and age in `mywork.do` servlet by creating a session in `welcome.do` servlet and putting a link to `mywork.do` servlet in `welcome.do` servlet. Write appropriate modifications you need to do in `welcome.do` servlet. Also write complete code for `mywork.do` servlet. [4]

- Q.3**
- (a) Explain "Prepared Statement". Write a JDBC program using prepared statement to insert five records in Customer table with fields CustomerNo, FirstName, LastName, Address, MobileNumber and Email. [6]
 - (b) What is metadata? Explain `ResultSet` metadata and Database metadata with an example. [6]

OR

- Q.3**
- (a) What are the benefits of connection pooling? Write down a jdbc code that illustrates concept of connection pooling for MYSQL DB. [6]
 - (b) What is `Updatable ResultSet`? Explain the steps of creating `Updatable ResultSet`. Also show the process of updating record. [6]