



Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech-IT(SE)/SEM-3/MSE-301/2009-10
2009**

WEB TECHNOLOGY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any *five* of the following. 5 × 14 = 70

1. a) What is HTML ? 1
- b) Signify the full form of HTML. 2
- c) What are the two main drawbacks of HTTP/1.0 ? 2
- d) Mention the role of Java script in the web. 3
- e) Why are cascading style sheets useful ? 2
- f) What are the two main attributes of < FORM > ?
 Mention their significances. 2 + 2
2. a) What for the drivers are so much vital in JDBC ? 2
- b) Which type of JDBC drivers are widely in use for
 development ? 1
- c) Mention the basic steps to execute an SQL through
 JDBC assuming any arbitrary type-4 driver. 4



- d) How does Java. sql. prepared statement differ from Java. sql. statement ? 3
- e) Why do we use Java. sql. Callable statement ? 1
- f) How would you prevent basic attempts to inject SQL ? 1
- g) How would you know if there is data conforming to an arbitrary constraint, in a table ? 2
3. a) What are the differences between static and dynamic web pages ? 2
- b) Differentiate between web server and Application server. 3
- c) State the life cycle of a servlet. 4
- d) Why is HTTP called stateless ? 1
- e) What is a session ? 1
- f) What are the differences between GET and POST ? 2
- g) What is the concept of servlet context ? 1
4. a) What is the role of deployment descriptor in J2EE 1.3 + servlet specification ? 5
- b) Draw the directory structure of a J2EE 1.3 + web application. 3
- c) Discuss the different approaches to track session. 6



5. a) What is the significance of Javax. sql. Data source in respect of connection pooling ? 2
- b) Write a JDBC code snippet that invokes an SP with 2 IN and an OUT parameters. 4
- c) Write a JDBC code snippet that uses a type-4 driver and inserts a record to a table via Java. sql. prepared statement. 4
- d) How would you perform TFM through JDBC code ? 4
6. a) Write a Java script function that checks whether BK. SPACE was pressed and then clears the entire text in a < textarea >. BK. SPACE. code = 8. 6
- b) Write a Java script function that checks whether a strong / weak password was entered in an HTML password field. A password is considered to be weak if it is less than 6 characters long. A message in red appears as long as the password is weak and soon as it becomes strong, it turns green. The message is displayed on the page itself. 6
- c) Why do we use < META > tag ? 2

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7. a) Write a servlet code that displays the server data and time. 6
- b) Write a servlet code that shows how many times it has been visited before since the server start up. 6
- c) How does a servlet retrieve the parameters coming from the < FORM > tag that was submitted to the servlet ? 2

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