Name : ……………………………………………….

Roll No. : ………………………………………………

Invigilator's Signature : ……………………………………

CS/M.Tech-(IT.SE)/SEM-3/MSE-301/2012-13
2012
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 do you mean by JDBC ? What is JDBC drive ?

2 + 2

   b)   Discuss about type-3 JDBC driver. What is use of
        driver manager and connection interface.   2 + 4

   c)   Write a JDBC code to create a table 'student' with
        following field : Name, Roll No., Dept.   4

2.   a)   What is HTML ? Discuss about different attributes of
        <script> tag.   2 + 3

   b)   Write a Java script code to validate a form field so that
        numbers could not be entered.   3

40395   [Turn over

c) How could you declare array in Java script ? Find errors in each of following code and correct the error

i) var a = [[1, 2]] , [3, 4]] ;

var [1, 1] = 5 ;

ii) var b = new array (10) ;

for (var i = 0 ; i < = b.length ; i ++)

b [i] = 1 ;   2 + 4

3. a) Discuss about MVC architecture. What are the advantages and disadvantages of servlet.   4 + 2

b) Write a servlet code that will display greeting message on a JSP page depending upon the user name and password entered in login html page. User name and password are saved in database table.   8

4. a) Compare dobeet (..) and dopost (..).   4

b) Write a servlet code to show header information.   4

c) How could you overcome SQL injection ? What is servlet context ?   4 + 2

5. a) What is the requirement of session tracking in web application ? Discuss about different session tracking mechanism.   2 + 6

b) Discuss about multitier architecture of web application.   2

c) Write a code that will display names of different books added to your cart by clicking a button.   4

6. a) What is the use of JSP ? What do you mean by implicit object ? 2 + 2

   b) Discuss about JSP standard action tags with example. 6

   c) Discuss about different scope in a web application. 4

7. a) What is the use of filter application ? 3

   b) What do you mean by deployment descriptor ? 3

   c) Write a servlet code that will display session life cycle. 4

   d) What is advantage of attribute over parameter ? What is XML parsing ? 2 + 2

8. Write short notes on any *seven* of the following : 7 × 2

   a) Prepared statement *vs* statement

   b) Cookies

   c) JSP directives

   d) Thread synchronization

   e) HHP servlet

   f) Array list

   g) MIME type

   h) Request dispatcher

   i) Web container.

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