



Name :

Roll No. :

Invigilator's Signature :

CS/B.Tech (IT)/SEM-7/IT-702/2011-12
2011
WEB TECHNOLOGY

Time Allotted : 3 Hours

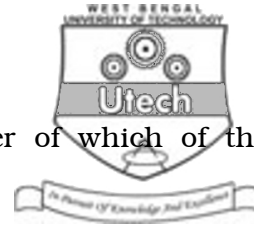
Full Marks : 70

The figures in the margin indicate full marks.

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

GROUP – A
(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) Which of the following statements is false ?
 - a) A servlet runs at the back of JSP
 - b) Stateless beans occupy more space than stateful session bean
 - c) ODBC takes the help of DSN to get bonded with the database
 - d) "Thin" belongs to the type-IV JDBC driver.
 - ii) Which HTML attribute is used to define inline styles ?
 - a) Class
 - b) Styles
 - c) Style
 - d) Font.



- iii) Driver Manager class is the member of which of the following packages ?
- java.util
 - javax.servlet
 - java.io
 - java.sql.
- iv) Which one of the following is the correct syntax for importing a stylesheet in CSS ?
- @import url ("example.css")
 - @import-css url ("example.css")
 - @import-style url ("example.css")
 - @import-stylesheet url ("example.css").
- v) What is the correct syntax to create an array in JavaScript ?
- names=new Array ("tom", "jerry")
 - names=new Array (1:"tom", 2:"jerry")
 - names=new Array {"tom", "jerry"}
 - names=new Array ["tom", "jerry"].
- vi) How will you change a date to one week later ?
- aDate.setDate(+7);
 - aDate.chgDate(+7);
 - aDate.setDate(aDate.getDate()+7);
 - aDate.chgDate(aDate.getDate()+7);



vii) Which of the following is used to read parameters from a JSP page ?

- a) `<jsp:getParam/>action`
- b) `<jsp:param>action`
- c) `request.getParameter()`method
- d) `<jsp:readParam/>action.`

viii) Cookies are stored in

- a) Web server
- b) Web browser
- c) Application server
- d) Database server.

ix) Which one of the following is a valid declaration of an applet ?

- a) `Public class My Applet extends java.applet.Applet {`
- b) `Public Applet MyApplet {`
- c) `Public class MyApplet extends applet implements Runnable {`
- d) `Public class MyApplet extends java.applet.Applet {.`

x) Which of the following is not a J2EE product ?

- a) Applets
- b) JSP
- c) Servlet
- d) Active X controls.



GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. What are cookies and session ? Why a session object is considered more secure and advantageous than cookie ?
 $3 + 2$
3. What is the use of style sheets ? Discuss Class selector and ID selector with proper example. $1 + 4$
4. Write down the typical features of a scripting language with examples. How markup languages is different from scripting languages ?
5. Describe the architecture of J2EE.
6. Write down the steps required to create a DSN.

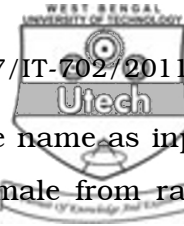
GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) Create an HTML page with the following features :

Navigation buttons, hyperlink, frames, drop down menu.
- b) Compare Java technology and Microsoft technology.



- c) Write an HTML/Java script code to take name as input through a confirm box and male or female from radio button and display Mr. or Mrs. and followed by user's name.
- d) What is E-commerce ? 4 + 3 + 6 + 2
8. a) What is a tire ? What are the advantages of 3-tire architecture over 2-tire architecture ?
- b) What is Web container ? What is Servlet Engine ?
- c) Discuss about the Servlet life-cycle.
- d) What do you mean by active web page ?
(2 + 3) + (2 + 2) + 5 + 1
9. a) Write a DTD and XML for the following customer data :
- Customer id (must be unique)
 - Customer name (first and last name as to be specified)
 - Mobile no. (can be more than one)
 - Address
 - State
 - Pin
 - Country
 - Credit card (may or may not be there)
 - Credit card no.
 - Credit card type (Domestic or International)



- b) Distinguish between SAX and DOM parser.
- c) What are the advantages of element over an attribute of an XML document ? 8 + 4 + 3

10. a) Differentiate among static, dynamic and active web pages. Discuss with examples the functions of META tag in HTML.
- b) Illustrate with example the use of IMAGE swapping using HTML/JavaScript. Write the HTML code for creating Table with 2 rows and 3 column and first row for the table should be with 3 column merged.

(5 + 3) + (4 + 3)

11. a) What are the different ways of adding styles (CSS) to web page ? Write the precedence rule for the same. What are subgroup selectors in CSS ? Give example.
- b) Write HTML/JavaScript code for dividing the browser window into two horizontal parts (left part is content and right part is main). Left part should contain the anchors clicking on which corresponding page to be displayed at the right part. Clearly state the assumptions regarding the developed code.

(4 + 2 + 3) + 6



12. Write short notes on any *three* of the following : 3 × 5

- a) DOM
- b) CSS-P
- c) DTD
- d) JDBC
- e) JNI.
