

R07

Set No. 1

Code No: M0521 /R07

IV B.Tech. I Semester Supplementary Examinations, February/March - 2011
WEB TECHNOLOGIES
(Computer Science & Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. a) Compare and Contrast HTML and DHTML.
b) Write a JavaScript to validate a form consisting of a username.
Also navigate to another web page after validation. [8+8]
2. a) Describe the scoping rules for the JavaScript with examples.
b) Discuss the advantages of CSS. [8+8]
3. Design an XML schema for hospital information management. Include every feature available with schema. [16]
4. a) Define BeanInfo Interface. Explain the importance of a BeanInfo Interface.
b) Create a simple code which utilizes the BeanInfo interface effectively. [8+8]
5. a) What is MIME? What is meant by MIME types of file? Which is the method that return the MIME type of file?
b) Explain the interface that enables Servlet to log events and access information about their environment.
c) How to start a web browser and request a Servlet. [6+6+4]
6. Write a JSP that allows the user to select an item from a list and to press submit button later prints the item on web page. [16]

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7. a) Write an example JSP to illustrate a method declaration and usage.
b) What is meant by dynamic content? Differentiate it with other forms. [8+8]
8. a) Give a note on popular JDBC driver names.
b) Discuss about statement class. [8+8]

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**Answer any FIVE Questions
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1. a) Explain the following terms related to CSS:
 - i) Font size
 - ii) Font weight
 - iii) Font stretch
 - iv) Text decoration
 - v) Text transformation
 - vi) Text alignment
 - vii) Padding
 - viii) Border style.

b) Explain the various ways you can reference a color in CSS. [8+8]
2. a) Explain briefly the creation of namespaces in XML with a suitable example.

b) Explain the various types of XML schema data types used. [8+8]
3. a) Explain the basic structure of an XML document and highlight the advantages of XML over HTML.

b) Explain the usage of the following XSL elements:
 - i) apply-templates
 - ii) attribute
 - iii) eval
 - iv) template
 - v) value-of
 - vi) choose. [8+8]

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4. a) Write a note on Custom-tag libraries.
b) Discuss about usage of JavaBean Component in JSP. [8+8]
5. a) List and explain the steps followed to test the servlet program.
b) Describe in detail ServletResponse interface of javax.servlet package. [8+8]
6. a) Explain the process of installing Java Software Development Kit.
b) "JSPs are an extension of servlet technology". Justify. [8+8]
7. a) Make a comparison of scriptlets and beans.
b) How data will be shared between JSPs. [8+8]
8. Explain how JDBC performs mapping between JAVA and SQL data types. [16]

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1. a) Explain how a switch-case statement is used in JavaScript with an example.
 b) Describe the scoping rules for the JavaScript with examples. [8+8]

2. a) Compare and contrast HTML and XML.
 b) Write a DTD for the XML document which has the student details with following fields arranged in a tabular format. Also assume the values of each field.

Name Registration number Department Class

[8+8]

3. a) What are the benefits of using styles compared with placing formatting directly into the text of the Web page?
 b) What is a stylesheet class?
 c) Describe the different ways that styles can be added to an age. [5+5+6]

4. Write about the following:
 a) Bean methods
 b) Bean properties
 c) Bean events. [16]

5. a) Explain the core interface provided in javax.servlet.http package.
 b) How to handle HTTP requests and responses. [8+8]

6. Explain JSP application design with suitable example? [16]

7. a) Develop a JSP to keep track number of users and display a message “You are nth visitor” where n is number of user.
 b) Write a detail note on JSP escape sequences. [8+8]

8. a) Write a note on Custom-tag libraries.
 b) Discuss about usage of JavaBean Component in JSP. [8+8]

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1. a) Explain how would you create an Ordered list.
b) Create a HTML table with columns for a country-name, national sport, national flower, national animal and national tree. There must be at least five states as rows in the table. [6+10]
2. a) Describe the major differences between Java and JavaScript.
b) "Javascript is referred to as Object based programming language"- support the statement with relevant examples. [8+8]
3. Briefly explain DOM and SAX XML Parsers with neat examples. [16]
4. What is a BeanBox? Write the about BeanBox.
b) Explain the highlighting features of java bean. [8+8]
5. a) Explain the core interface provided in javax.servlet.http package.
b) How to handle HTTP requests and responses. [8+8]
6. Explain JSP scripting components with examples. [16]
7. a) Explain the lifecycle of JSP.
b) Discuss the JSP standard actions. [8+8]
8. a) Write a note on Custom-tag libraries.
b) Discuss about usage of JavaBean Component in JSP. [8+8]