

Code No: V3241

R07

Set No: 1

III B.Tech. II Semester Supplementary Examinations, April/May - 2013

**WEB TECHNOLOGIES**

(Information Technology)

**Time: 3 Hours**

**Max Marks: 80**

Answer any FIVE Questions  
All Questions carry equal marks

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- 1 Explain the following terms related to CSS [16M]  
i) Font size ii) Font weight iii) Font stretch iv) Text decoration  
v) Text transformation vi) Text alignment vii) Padding viii) Border style.
- 2 a) Describe the various Date Objects with suitable examples? [8M]  
b) Write a java script to validate a form consisting of a username. Also navigate to another web page after Validation? [8M]
- 3 Design an XML schema for hospital information management. Include every feature available with schema. ? [16M]
- 4 Explain about the following [4M+8M+4M]  
a) Bean methods  
b) Bean properties  
c) Bean events
- 5 a) Explain the functionality of javax.servlet package for web servers. Discuss about various classes and Interfaces of the package. ? [8M]  
b) Discuss the methods defined by Servlet Request interface. [8M]
- 6 a) Discuss about javax.servlet.jsp package. [8M]  
b) Explain about the JSP processing. [8M]
- 7 a) Discuss about dynamic content. [8M]  
b) What is a scrip let? Write about scrip let elements. [8M]
- 8 a) Discuss the four types of JDBC drivers. [8M]  
b) Give a note on javax.sql package. [8M]

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- 1 a) Create a simple HTML page which demonstrates the use of the various types of lists. Try adding a definition list which uses an unordered list to define terms? [8M]  
b) What is the difference between group of checkbox buttons and group of radio buttons? [8M]
- 2 a) Compare and contrast HTML and DHTML? [8M]  
b) What is function? Explain how parameters are passed to functions in JavaScript? [8M]
- 3 a) Give the syntax of an XML document and explain how a basic XML document is created with an example? [8M]  
b) Define an XML schema. Show how an XML schema can be created. ? [8M]
- 4 Take the TickTock Bean available in BDK, build an application which controls the Colors Bean. Develop the necessary code to exhibit the bound properties of java beans with the above mentioned beans? [16M]
- 5 a) Explain the method of reading the names and values of parameters that are included in a client request. Illustrate with an example program? [8M]  
b) List and describe the classes that are provided in the javax.servlet package? [8M]
- 6 a) Write a JSP that greets the user by name. [8M]  
b) Explain in detail taglib directive. [8M]
- 7 a) Develop a JSP with a Bean in the application scope. [8M]  
b) List the methods in request object. [8M]
- 8 Write a JDBC program to give grace marks to students if they have excellence in more than 3 subjects but failed in 1 subject. Getting more than 80 marks is excellent. ? [16M]

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(Information Technology)

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- 1 a) Explain the various ways you can reference a color in CSS. [6M]  
b) How do you add a border to a create table? [5M]  
c) Explain how forms are created? [5M]
  
- 2 a) Develop a java script to determine whether a given number is an 'ARMSTRONG NUMBER' or not. [Eg: 153 is an Armstrong number, since sum of the cube of the digits is equal to the number i.e.,  $13 + 53 + 33 = 153$ ] [8M]  
b) Insert an image into a web page. Write a script which displays a message when the mouse is over the image. The co-ordinates of the mouse should be displayed if click is attempted on the image [8M]
  
- 3 a) What is a namespace? Describe how a namespace is created with a relevant example?  
b) Show how SAX is an alternative method for parsing XML documents. Also give the advantages of SAX.? [8M+8M]
  
- 4 Explain about the following  
a) Advantages of Java beans [8M]  
b) JDK Introspection [8M]
  
- 5 a) Discuss how servlets can be used to extend a web server's functionality ? [8M]  
b) Write about the methods present in Servlet interface. [8M]
  
- 6 a) Discuss about JSP environment and Explain the components of JSP. [8M]  
b) Describe setting up the Apache Tomcat Server and testing Tomcat server. [8M]
  
- 7 a) Write a JSP with a Bean in the session scope. [8M]  
b) How application data can be shared in JSP? Explain. [8M]
  
- 8 List and explain the steps involved in a basic JDBC program. [16M]

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**WEB TECHNOLOGIES**

(Information Technology)

**Time: 3 Hours**

**Max Marks: 80**

Answer any FIVE Questions  
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- 1 a) Explain how images can be inserted in to a HTML document? [5M]  
b) Explain what do you mean by Unordered lists with a relevant example? [6M]  
c) Show how group and alignment of tables rows and columns is achieved using HTML? [5M]
- 2 a) Write a javascript to display the denomination of the amount deposited in the bank in terms of 100's, 50's, 20's, 10's, 5's, 2's & 1's. (Eg: If deposited amount is Rs.163, the output should be 1-100's, 1-50's, 1- 10's, 1-2's & 1-1's)? [8M]  
b) Create a javascript which has event handlers for the buttons "red", "blue", "green", "yellow" and "orange" which must produce messages stating the chosen favorite color. The event handler must be implemented as a function, whose name must be assigned to the onclick attribute of the radio button elements. The chosen color must be sent to the event handler as a parameter? [8M]
- 3 a) What are the goals of XML? [5M]  
b) Explain the four possible keywords in a DTD declaration with suitable examples. [5M]  
c) Clearly explain the advantages of XML schemas over DTDs. [6M]
- 4 Explain in brief about Java beans API and EJB'S? [16M]
- 5 a) Explain the functionality of javax.servlet package for web servers. Discuss about various classes and interfaces of the package. [8M]  
b) Explain in brief about the Life cycle of a Servlet. [8M]
- 6 a) What are the limitations of Servlets? How JSP over comes these Problems? [8M]  
b) Discuss about Tomcat Server. [8M]
- 7 a) Discuss about of session scope- manually and automatically with suitable examples.  
b) Discuss error handling mechanisms. [8M+8M]
- 8 Write short notes on following:  
a) Pure Java driver    c) SQL query    b) Driver Manager    d) Order by clause. [16M]

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