

Code No: 07A70502

R07**Set No. 2**

IV B.Tech I Semester Examinations, November 2010

WEB TECHNOLOGIES

Computer Science And Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

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. Discuss about implicit JSP objects in detail. Explain the scope of every JSP implicit object. [16]
3. (a) Write a JSP to output any given string ten times.
(b) Give a note on Testing Tomcat server. [8+8]
4. (a) Discuss the important features of XML which make it more suitable than HTML for creating web related services.
(b) Explain how styling XML with cascading stylesheets is done for the library information domain. [8+8]
5. Discuss how servlets can be used to extend a web server's functionality. [16]
6. (a) Develop a javascript to determine whether a given number is a 'PERFECT NUMBER' or not. [Eg: 6 is a perfect number, since its factors including 1 (but not the number itself) sum to the number i.e., $1+2+3 = 6$]
(b) 'Javascript is referred to as Object based programming language'- support the statement with relevant examples. [8+8]
7. "A BeanInfo Interface is used by the developer"- show how this statement is justified and explain with an example how BeanInfo serves the purpose. [16]
8. Define a complete data manipulation application for the book database. The user should be able to edit existing data, add new data to the database and delete any obsolete data. [16]

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1. Explain the functionality of javax.servlet.http package by discussing about the methods and interfaces of this package. [16]
2. Write a program that lists all books and the authors for those books from technical-library database. [Assume database schema]. [16]
3. (a) Discuss about dynamic content.
(b) List the methods in request object. [8+8]
4. (a) Create a HTML document that displays a table of basketball scores at national games in which the team names have their respective team colors. The score of the leading/winning team should appear larger and in a different font than the losing team. Use CSS.
(b) Discuss the advantages of CSS. [8+8]
5. (a) Differentiate between servlets and JSPs.
(b) Write a JSP expression to insert current date and time in to a web page. [8+8]
6. (a) Develop a javascript 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., $1^3 + 5^3 + 3^3 = 153$]
(b) Describe the various Date Objects with suitable examples. [8+8]
7. 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. [16]
8. (a) Create an XML schema for a catalog of four-stroke motorbikes, where each motorbike has the following child elements-*make*, *model*, *year*, *color*, *engine*, *chassis number* and *accessories*. The *engine* element has the child elements *engine number*, *number of cylinders*, *type of fuel*. The *accessories* element has the attributes like *disc brake*, *auto – start* & *radio*, each of which is required and has the possible values *yes* and *no*. Entities must be declared for the names of *three* popular motorbike makes.
(b) Describe the Document object model. [8+8]

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R07**Set No. 1**

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1. (a) With a suitable example explain the creation of namespaces in XML.
(b) Explain the various types of XML schema data types used. [8+8]
2. List and explain the steps involved in a basic JDBC program. [16]
3. Write a servlet that generates HTML page and explain the process of generation of HTML page. [16]
4. (a) Explain in what way HTML is different from javascript.
(b) Describe in brief the major uses of javascript on the client side.
(c) Write a script that asks the user to enter two numbers, obtains the two numbers from the user and outputs text that displays the sum, product, difference and quotient of the two numbers. [5+5+6]
5. (a) What is BeanInfo Interface? Explain the importance of a BeanInfo Interface.
(b) Create a simple code which utilizes the BeanInfo interface effectively. [8+8]
6. (a) Discuss about stripping elements.
(b) List and explain any 4 attributes of < jsp: useBean> action. [8+8]
7. (a) Develop a JSP to keep track number of users and display a message "You are n^{th} visitor" where n is number of user.
(b) Write a detail note on JSP escape sequences. [10+6]
8. (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.
(b) Write a program to construct a binary tree and to traverse the same in post-order. [8+8]

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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. What is a framework? Why is it useful for application development? Explain in detail struts framework. [16]
3. Explain the following with examples:
 - (a) Creation of HTML document with table.
 - (b) Creation of HTML document with frames. [8+8]
4. (a) What are constrained properties related to a bean? Give an instance of it.
(b) Explain persistence of a bean with an example.
(c) Describe how customizers can be provided for the bean component. [6+5+5]
5. Develop a JSP to display one of three pages based on the user choice. Collect the choice from the user in a form of a web page. [16]
6. (a) Develop a JSP to accept users first name and then welcome the user by name.
(b) Discuss about javax.servlet.jsp.tagext package. [10+6]
7. Design an XML schema for hospital information management. Include every feature available with schema. [16]
8. (a) Create a HTML form with three input fields first name, last name and e-mail. Pass these values to a servlet. In the servlet, verify all input fields are not null and display them back to client.
(b) Give the signature of a method which is used to read bytes from the stream for a servlet. Explain its usage. [10+6]
