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**Seventh Semester B.E. Degree Examination, December 2011**  
**Programming the Web**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting  
at least TWO questions from each part.**

**PART – A**

- 1
  - a. Describe fully qualified domain name and explain how fully qualified domain names are translated into IP. (06 Marks)
  - b. What is HTTP? Explain its phases in detail. (10 Marks)
  - c. Explain the following tags with examples: i) <img>      ii) <a> (04 Marks)
- 2
  - a. Bring out the differences between HTML and XHTML. (06 Marks)
  - b. Write an XHTML program to create a link within a document. (04 Marks)
  - c. Create XHTML document that defines a table with five rows and five columns. The first row should contain country name, gold, silver, bronze (all three indicating the type of medals) and total in each column respectively. Fill in the information details in the table with appropriate values. After filling the details set red color to the background for the first row, blue for the second, yellow for the third, purple for the fourth and green for the fifth row. Use of align and valign attributes for this table has to be made at the appropriate places. (10 Marks)
- 3
  - a. List out the variety of selector forms available in CSS and explain in detail. (08 Marks)
  - b. Explain the different levels of style sheets available in CSS. (04 Marks)
  - c. Explain the box model (margin and padding property) with respect to CSS. (08 Marks)
- 4
  - a. Explain different primitive types in java script. (05 Marks)
  - b. Explain the concept of object creation and modification in javascript. (05 Marks)
  - c. Develop and demonstrate, the use of javascript, a XHTML document that illustrates the USN (the valid format is: A digit 1 to 4 followed by two uppercase characters followed by two digits followed by two uppercase characters followed by three digits {these three digits should not be all zero's} no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected. (10 Marks)

**PART – B**

- 5
  - a. Write XHTML and javascript, script which has six buttons, labeled six different subjects. The event handler for these buttons must produce message starting the chosen favorite subject. The event handler must be implemented as a function, whose name must be assigned to the onclick attribute of the radio button element. The chosen subject must be sent to the event handler as a parameter. Use a click event to trigger a call to alert, which should display a brief description of the selected subject. (10 Marks)
  - b. Write XHTML and javascript, script that checks the passwords, that includes two passwords as input elements, along with reset and submit buttons. Implement the below mentioned functions to check:
    - i) Both entered passwords are same.
    - ii) Both entered passwords are different.
    - iii) If no password is typed in either of the password fields.
 Use on submit event to trigger a call to display an alert box if the error occurs. (07 Marks)
  - c. Explain all parameters of add Event Listener method. (03 Marks)

- 6 a. Explain different types of positioning elements with example. (10 Marks)  
b. Write XHTML and javascript, script that illustrate the DOM2 event model which allows the user to drag and drop words to complete a paragraph (create atleast 10 words). Use both DOM0 and DOM2 event model concept. (10 Marks)
- 7 a. What is DTD? Explain how to create elements, attributes and entities in DTD. (10 Marks)  
b. Explain the concept of XSLT processing. (04 Marks)  
c. With an example, explain how an XSLT processor uses an XSLT style sheet with an XML document. (06 Marks)
- 8 a. What are the three categories of perl variables? Give an example for each. (06 Marks)  
b. What is CGI? How can data be passed in CGI using GET and POST methods, with example? (10 Marks)  
c. Explain remembering matches in perl. (04 Marks)

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