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**Seventh Semester B.E. Degree Examination, December 2010**  
**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. How does domain name conversion happens on the web? Describe the concept, with a figure, by taking a suitable example. (06 Marks)
  - b. Give and explain the request and response phases of hyper text transfer protocol. (08 Marks)
  - c. What is the purpose of a MIME type specification in request/response transactions between a browser and a server? (03 Marks)
  - d. Give and explain the syntax of the following tags:
    - i) <blockquote >
    - ii) <meta >
 (03 Marks)
  
2.
  - a. Create, test and validate a XHTML document that has a form with
    - (I) Three text boxes to collect user name and address.
    - (II) Table with the headings product name, price and quantity and the values are
      - i) 100 – watts light bulb, \$ 2.39, 4
      - ii) 200 – watts light bulb, \$ 4.29, 8
      - iii) 100 – watts long life light bulbs, \$ 3.95, 4
      - iv) 200 – watts long life light bulbs, \$ 7.49, 8
    - (III) A collection of 4 radio buttons that are labeled as
      - i) Visa
      - ii) Master card
      - iii) Discover
      - iv) Check
    - (IV) A submit and a reset button. (10 Marks)
  - b. Explain the syntactic differences between HTML and XHTML. (05 Marks)
  - c. Create XHTML document that has two frames. The left frame displays contents.html and the right frame displays cars.html where the second frame is a target of link from the first frame. [Note : contents.html is a list of links to the cars description.] (05 Marks)
  
3.
  - a. What are the selector forms? Explain with example, different types of selector forms, with syntax. (06 Marks)
  - b. How many levels of style sheet are there? Explain their usage, with syntax and example. (06 Marks)
  - c. Write document level style sheet to illustrate the text-decoration. (04 Marks)
  - d. Write the conflict resolution in cascading style sheets. (04 Marks)
  
4.
  - a. Explain with examples, the screen output and keyboard input methods. (05 Marks)
  - b. Write a javascript to accept three numbers, using the prompt method. Find and display the largest of three using alert method. Use predefined function Math.max. (05 Marks)
  - c. Write a javascript that contains a function named tst\_phone\_num, which tests the phone number of the format ddd-dddd-dddddd <091-8256-1234567> and display whether the given number is valid or not using alert. (05 Marks)
  - d. Write a note on character and character classes. (05 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

**PART – B**

- 5 a. What are the different approaches to addressing XHTML elements? Describe with examples. (06 Marks)
- b. Explain the three phases of event processing in the DOM2 event model. (06 Marks)
- c. Write a javascript to compare two passwords. (08 Marks)
- 6 a. Explain the different types of positioning, with examples. (06 Marks)
- b. Write a javascript that illustrates the dynamic stacking of images. (06 Marks)
- c. Write a javascript which displays the message 'Hello, how are you?' when the mouse button is pressed no matter where it is on the screen. (06 Marks)
- d. What exactly is stored in the screen X and screen Y properties after a mouse click?(02 Marks)
- 7 a. What is the document type definition (DTD)? Describe the approach to declare elements, entities and attributes. (08 Marks)
- b. Create an XML document that lists advertisement for selling used cars. (06 Marks)
- c. With a neat diagram, explain the transformation process by an XSLT processor. (06 Marks)
- 8 a. Describe with examples, the various types of variables, in PERL. (06 Marks)
- b. Write a PERL program to read a file on command line that contains person's name, in each line, converts them to uppercase and displays them in ascending order. (04 Marks)
- c. Write a CGI-PERL program to use a cookie to remember the day of the last login, from a user and display it when executed. (06 Marks)
- d. Write a note on CGI-Pm module. (04 Marks)

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