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**Fourth Semester MCA Degree Examination, June-July 2009**  
**Web Programming**

Time: 3 hrs.

Max. Marks:100

**Note : Answer any FIVE full questions.**

- 1
  - a. Describe a fully qualified domain name and explain how fully qualified domain names are translated into IP. (06 Marks)
  - b. What is Hypertext Transfer Protocol? Describe the purposes of the five most commonly used HTTP methods. (10 Marks)
  - c. Differentiate between Web and Internet. (04 Marks)
- 2
  - a. What is the difference between HTML and XHTML? Explain. (05 Marks)
  - b. What is the difference in the effect of a paragraph tag, break tag and pre tag? (05 Marks)
  - c. Create, test and validate an XHTML document that has a form with the following controls:
    - i) A text box to collect the user name. ii) Four checkboxes, one each for the following items.
      - Four 100 - watt light bulbs for \$ 2.39
      - Eight 100 - watt light bulbs for \$ 4.29
      - Four 100 - watt long life light bulbs for \$ 3.95
    - ii) A collection of three radio buttons that are labeled as follows :
      - \* Visa      \* Master card      \* Discover.
    - iii) Submit and Reset Buttons. (10 Marks)
- 3
  - a. What is a CSS? Describe the different levels of style sheets and their precedence. (06 Marks)
  - b. List and explain the variety of selector forms with example. (08 Marks)
  - c. Create and test an XHTML document that describe an unordered list of atleast five popular books. Use style sheet to define different list items to have different bullet types. (06 Marks)
- 4
  - a. Describe two ways to embed a Java Script in an XHTML document. Give example for each. (06 Marks)
  - b. Explain string properties and methods in Java Script. (07 Marks)
  - c. Write and test XHTML and Java Script files for reading three numbers, using prompt to get each and output the largest of the three numbers. (07 Marks)
- 5
  - a. What is a DOM? Describe the DOM structure for simple document. (06 Marks)
  - b. Describe approach to addressing XHTML elements using
    - i) Forms and elements ii) Name attribute iii) get Element By ID. (06 Marks)
  - c. What is an event and event handler? List any five most commonly used attributes related to events, tags that can include the attributes and circumstances under which the associated events are created. (08 Marks)
- 6
  - a. What is the purpose of a DTD? Explain how elements attributes are declared in DTD with an example? (10 Marks)
  - b. Why would you use a CSS – Style Sheet for an XML documents? (04 Marks)
  - c. Define the purpose of XSLT style sheet. How does an XSLT processor use an XSLT style sheet with an XML document? (06 Marks)
- 7
  - a. What are the three categories of perl variables? Give example for each. (06 Marks)
  - b. What is a file handle? Explain how files can be opened for input and output in perl. (07 Marks)
  - c. Describe basics of perl functions. (07 Marks)
- 8
  - a. What is a querystring? Explain how query string is transmitted to the server with get and post method. (08 Marks)
  - b. What are cookies? Where cookies are stored? What is form of the value of a cookie? (06 Marks)
  - c. What is the purpose of the shortcuts in CGI.PM? (06 Marks)

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**Fourth Semester MCA Degree Examination, December, 2010**  
**Web Programming**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

1. a. Briefly explain the following : i) web browser ii) web server iii) URL  
iv) MIME. (08 Marks)
- b. Write the differences between xhtml and html. (06 Marks)
- c. What is cell padding and cell spacing? Demonstrate the use of < table > tag with suitable example. (06 Marks)
2. a. Create a registration form which accepts name, userid, password, confirm password, language (list box) ; gender (radio button) ; Area of interest (checkbox). Provide two buttons submit and rest. (10 Marks)
- b. Design a webpage using two frames.

<u>Lake view</u>	
<u>Mountain</u>	
<u>Hillstation</u>	

Create 3 hyperlinks. On clicking the link, corresponding image should be displayed in the 2<sup>nd</sup> frame which is presently blank. (10 Marks)

3. a. Explain the methods of date object in javascript. Give an example. (10 Marks)
- b. What is the use of external style sheet? How does it differ from inline and document level style sheet? (10 Marks)
4. a. What is an event in java script? Explain some events. (06 Marks)
- b. What are the differences and similarities between java and javascript? (04 Marks)
- c. Write a javascript to accept principal, rate and time. Also calculate and print the simple interest. (06 Marks)
- d. What are the different methods available in string object of javascript? (04 Marks)
5. a. Explain in detail : i) XML ii) XSLT iii) Webservices iv) UDDI. (10 Marks)
- b. What are the advantages of XML? Define namespace and XML schema. (10 Marks)
6. a. Explain file handling in perl. (10 Marks)
- b. What are the benefits of perl? What are the basic datatypes in perl? (10 Marks)
7. a. What is CGI? How parsing of data is done for GET and POST methods? (10 Marks)
- b. What is a cookie? Where is it stored? Explain how to create and delete a cookie. (10 Marks)
8. a. Write a perl program to display various server information like server name, server protocol and CGI revision. (10 Marks)
- b. Define the following : i) Ordered list and unordered list in xhtml ii) CSS  
iii) Prompt in javascript iv) DOM. (10 Marks)

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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.