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Fourth Semester MCA Degree Examination, December 2012

Web Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. What is HTTP? What are the general form of different places of HTTP? (04 Marks)
 - b. Briefly explain the following: i) Web browsers; ii) Web servers; iii) URL; iv) MIME. (10 Marks)
 - c. Explain basic text formatting in XHTML with example. (06 Marks)

- 2
 - a. Create an XHTML document to describe a table with the following contents. The columns of the table must have the headings pine, maple, oak and fir. The rows must have the labels average height, average width, typical lifespan and leaf type. You can make up the data cell values. (06 Marks)
 - b. What is CSS? Explain the various selectors forms with example. (06 Marks)
 - c. Write an XHTML (with CSS) program to display the following output:
 AIRCRAFT TYPES
 I) General aviation
 - A. Single – Engine
 - i) Tail wheel
 - ii) Tricycle.
 - B. Dual – Engine
 - i) Wing mounted engines
 - ii) Push-pull mounted engines.
 II) Commercial aviation
 - A. Dual – Engine
 - i) Wing mounted engines
 - ii) Fuselage – Mounted engines
 - B. Third engine
 - i) Vertical stabilizer
 - ii) Fuselage. (08 Marks)

- 3
 - a. Explain javascript methods – alert(), prompt() and confirm() with example. (06 Marks)
 - b. Explain pattern matching using regular expressions in javascript with example. (06 Marks)
 - c. Create and validate an XHTML document with javascript that has the checkboxes for apple (59 cents/Rs. each kg), orange (49 cents/Rs. each kg) and banana (39 cents/Rs. each kg), along with a submit button. Each of the check boxes should have its own on click event handler. These handlers must add the cost of their fruit to a total cost. An event handler for the submit button must produce an alert message “your total cost in \$ xxx”, where xxx is the total cost of the chosen fruit, including 5% sales tax. This handler must return false to avoid the actual submission of the form data (08 Marks)

- 4
 - a. What is DOM? Describe DOM structure for a simple document. (04 Marks)
 - b. Explain positioning of elements with example. (08 Marks)
 - c. What is an event and event handler? Explain any two event handler with examples. (08 Marks)

- 5 a. What is DTD? Explain how to declare elements, attributes and entities with example. (08 Marks)
b. What is the purpose of XSLT style sheets? Describe XSLT processing with diagram. (06 Marks)
c. With an example, explain how an XSLT processor uses an XSLT style sheet with an XML document (sample of XML doc and any simple XSLT program to display). (06 Marks)
- 6 a. Briefly describe the three categories of variables with example in Perl. (08 Marks)
b. Explain the file handle in Perl. (04 Marks)
c. What is CGI? Explain the linkage mechanism between an XHTML document on a browser and a CGI program on the server. (08 Marks)
- 7 a. How do you create and access an array? Describe the various functions for dealing with arrays with example in PHP. (08 Marks)
b. Explain PHP access to database with example program. (08 Marks)
c. Write short notes on cookies. (04 Marks)
- 8 a. Explain string methods in ruby with example. (04 Marks)
b. Explain different control statements of ruby with example. (08 Marks)
c. Explain form handling in rails with an example program with sample output. (08 Marks)

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