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Fourth Semester MCA Degree Examination, June/July 2011
Web Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What is a web server? Give the characteristics of a web server and explain its operation. (10 Marks)
 b. Write notes on : i) Uniform resource locators ii) MIME. (04 Marks)
 c. Explain the request phase of HTTP. (06 Marks)
- 2 a. Explain the standard XHTML document structure. (04 Marks)
 b. Explain the following, with reference to XHTML :
 i) Character entities ii) iii) ROWSPAN and COLSPAN iv) <DL>. (08 Marks)
 c. Create a web page using XHTML containing two vertical frames, with the right frame three times the width of the left frame. Display two links on the left frame which display their target files on the right frame. (08 Marks)
- 3 a. What are the various levels of style sheets? Explain each category, with examples. (06 Marks)
 b. Create an XHTML document and show how to apply various style sheet font properties to format the text in the document. (10 Marks)
 c. Write a note on class and Id selector, with examples. (04 Marks)
- 4 a. Explain the following Javascript methods : i) alert() ii) prompt() iii) confirm(). (06 Marks)
 b. How do you create arrays in Javascript? Explain the various array methods, with example. (08 Marks)
 c. Create a Javascript embedded XHTML document to display first N integers and their squares in two columns of a table. (06 Marks)
- 5 a. Explain DOM, with an example. (06 Marks)
 b. Write a note on the following : i) Events and event handling
 ii) Stacking elements on a web page. (06 Marks)
 c. Create an XHTML page with Javascript to calculate the area of a triangle. Accept height and base through two text boxes. Display the area in another text box. Use two buttons to calculate area and refresh the form controls. (08 Marks)
- 6 a. Explain how to declare elements and attributes in XML DTD. Give examples. (08 Marks)
 b. Create an XML document to display the information about four different vehicle models like – manufacturer, color, engine – capacity and price, creating the necessary tags. (06 Marks)
 c. Write a note on XSLT style sheets. Give an example of using these style sheets to an XML document. (06 Marks)
- 7 a. Explain the following in Perl : i) String handling functions ii) File handles. (06 Marks)
 b. Explain the associative arrays, with examples. (06 Marks)
 c. Explain the following, with examples in Perl : i) if construct ii) while loop. (08 Marks)
- 8 a. What is CGI? Explain the linkage mechanism between an XHTML document on a browser and a CGI program on the server. (06 Marks)
 b. Explain the CGI – pm and its functions. (08 Marks)
 c. Write a note on sessions and cookies. (06 Marks)
