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First Semester MCA Degree Examination, June/July 2017
Introduction to Web Technologies

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. Briefly explain the following :
 - b. i) URL ii) MIME iii) Firewall iv) Web server v) application server. (10 Marks)
 - c. What are the two phases of HTTP? Explain each of them in detail. (10 Marks)

- 2
 - a. Explain the following tags with example :
 i) <div> ii) iii) <select> iv) . (08 Marks)
 - b. Explain the following, with respect to table creation in XHTML documents.
 i) Align and valign attributes
 ii) Rowspan and colspan attributes
 iii) Cellpadding and cellspacing attributes. (09 Marks)
 - c. Discuss any three differences between HTML and XHTML. (03 Marks)

- 3
 - a. What is CSS? Explain the different levels of CSS with examples. (08 Marks)
 - b. Explain class selector and generic selector with examples. (06 Marks)
 - c. Define various font properties with example for each. (06 Marks)

- 4
 - a. Describe the two ways of embedding JavaScript in XHTML with examples. (06 Marks)
 - b. Write a program in JavaScript to accept a number using prompt and display its reverse using alert. (06 Marks)
 - c. Explain any four array methods used in JavaScript with example for each. (08 Marks)

- 5
 - a. Write a XHTML document to create the following form and JavaScript code to calculate the area of a rectangle on click of the button. Display the result on the form. (12 Marks)

Area of Rectangle

Length :

Breadth:

Result :

Fig.Q5(a)

- b. Explain the three different approaches of accessing elements in JavaScript. (06 Marks)
- c. Write any two advantages of JavaScript. (02 Marks)

- 6 a. Define DTD. Explain with an example how to declare elements, attributes and entities in DTD. (10 Marks)
- b. What is the purpose of XSLT style sheet? Explain XSLT processing with a neat diagram. (08 Marks)
- c. What are the two primary advantages of XML schemas over DTD? (02 Marks)
- 7 a. What is CGI? Explain the CGI.pm module. (10 Marks)
- b. Explain the substitute and transliterate operators used in pattern matching in PERL. (06 Marks)
- c. Explain Cookies in PERL. (04 Marks)
- 8 Write short notes on :
- a. Box model
- b. Stacking of elements
- c. Date object in JavaScript
- d. Hashes in PERL. (20 Marks)

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