

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

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- Briefly explain the following:
 - i) URL ii) MIME iii) Firewall iv) Web server v) application server.

(10 Marks)

What are the two phases of HTTP? Explain each of them in detail.

(10 Marks)

- Explain the following tags with example: 2
 - i) <div>
- ii)
- iv) <0/>. iii) <select>
- (08 Marks)
- 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)

Discuss any three differences between HTML and XHTML.

- (03 Marks)
- What is CSS? Explain the different levels of CSS with examples. 3
- (08 Marks) (06 Marks)

Explain class selector and generic selector with examples. b. Define various font properties with example for each.

(06 Marks)

- Describe the two ways of embedding JavaScript in XHTML with examples. (06 Marks)
 - Write a program in JavaScript to accept a number using prompt and display its reverse using (06 Marks)
 - Explain any four array methods used in JavaScript with example for each.
- (08 Marks)
- Write a XHTML document to create the following form and JavaScript code to calculate the 5 area of a rectangle on click of the button. Display the result on the form. (12 Marks)

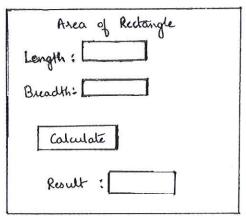


Fig.Q5(a)

- b. Explain the three different approaches of accessing elements in JavaScript.
- (06 Marks)

c. Write any two advantages of JavaScript.

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- 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?
- 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)

(02 Marks)

c. Explain Cookies in PERL.

(04 Marks)

- Write short notes on:
 - a. Box model
 - b. Stacking of elements
 - c. Date object in JavaScript
 - d. Hashes in PERL.

(20 Marks)
