

--	--	--	--	--	--	--	--	--	--

**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) <span> iii) <select> iv) <ol>. (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)

\* \* \* \* \*