



# CBCS SCHEME

18MCA13

USN

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## First Semester MCA Degree Examination, June/July 2019 Web Technologies

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Discuss the HTTP request and response phases. (10 Marks)  
b. Write a short note on: i) Web browser ii) MIME iii) Web server. (10 Marks)

OR

- 2 a. Explain the following with reference to XHTML: i) Heading tag ii) Image tag  
iii) Rowspan iv) Colspan. (08 Marks)  
b. Explain the various types of link that can be used in a XHTML document with example. (08 Marks)  
c. List out syntactic difference between HTML and XHTML. (04 Marks)

### Module-2

- 3 a. Explain different selector forms. (10 Marks)  
b. What is CSS? Describe the different levels of style sheet and their precedence. (10 Marks)

OR

- 4 a. With an example explain briefly any 5 HTML5 input elements. (10 Marks)  
b. Explain briefly HTML5 document structure. (06 Marks)  
c. Write a simple program to illustrate HTML5 document structure. (04 Marks)

### Module-3

- 5 a. Define javascript array. Explain briefly two different ways to create array in javascript. (08 Marks)  
b. Explain any 6 array methods used in javascript. (12 Marks)

OR

- 6 a. Write XHTML and DOM tree structure for below table:

Morning	Afternoon
7	3
8	4

(06 Marks)

- b. Develop and demonstrate, a XHTML document that collect the USN (the valid format is : A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by three upper-case characters followed by two digits, (no embedded spaces are allowed) from the user. Use javascript that validate the content of the document. Suitable message should be display in the alert if errors are detected in the input data. (08 Marks)  
c. Write a javascript program to have five radio buttons, labeled red, blue, green, yellow and orange. The event handlers for these button must produce message stating the chosen favourite color. The event handler must be implemented as function, whose name must be assigned to the on-click attribute of the radio button elements. The chosen color must be send to the event handler as a parameter. (06 Marks)



**Module-4**

- 7 a. With an example, explain briefly absolute position and relative position. (10 Marks)  
b. Develop and demonstrate using javascript, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to top to become completely visible. (10 Marks)

**OR**

- 8 a. What is XML? What is the difference between XML and HTML? Mention the rules of a well formed XML document. (10 Marks)  
b. What are DTD and XML schema? Explain how to declare elements, attributes and entities in DTD, give example. (10 Marks)

**Module-5**

- 9 a. What is JQuery? Explain briefly properties, utilities and methods of JQuery with a suitable example. (10 Marks)  
b. Explain briefly document ready handler of JQuery. (06 Marks)  
c. Write a JQuery program to disable/enable the form submit button based on checkbox. (04 Marks)

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- 10 a. Write a short note on: i) fadeIn( ) ii) fadeOut( ) iii) slideDown( ) iv) slideUp( ). (10 Marks)  
b. Write a JQuery program to illustrate fade in and fade out all division elements. (05 Marks)  
c. Write a JQuery program to illustrate animate an element, by changing in heights and width. (05 Marks)

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