

USN

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

13MCA15

First Semester MCA Degree Examination, Dec.2014/Jan.2015
Introduction to Web Technologies

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What is a web server? Explain its operation and characteristics. (10 Marks)
b. Explain the phases of HTTP protocol. (10 Marks)
- 2 a. Write a note on: i) Higher level protocols; ii) Important components of web. (10 Marks)
b. Explain XHTML document structure with an example. (04 Marks)
c. What is the difference between HTML and XHTML? Explain. (06 Marks)
- 3 a. Create a webpage using XHTML containing two vertical frames, with the right frame 3 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)
b. What is CSS? Describe the different levels of style sheets and their precedence. (06 Marks)
c. Create an XHTML document and show how to apply various style sheet font properties to format the text in the document. (06 Marks)
- 4 a. What are the major uses of java script on the client side? (04 Marks)
b. How do you create arrays in java script? Explain the various array methods, with example. (08 Marks)
c. Create a java script embedded XHTML document to display first N integers and their squares in two columns of a table. (08 Marks)
- 5 a. Explain document object model with an example. (06 Marks)
b. What is an event and event handler? List any five most commonly used attributes related to events, tags that can include the attributes and circumstances under which the associated events are created. (10 Marks)
c. What is styling elements on webpage? (04 Marks)
- 6 a. Explain different types of positioning elements with illustrations. (10 Marks)
b. Write a javascript program to have five buttons, labeled red, blue, green, yellow and orange. The event handlers for these buttons must produce message stating the chosen favourite color. The event handler must be implemented as a function, whose name must be assigned to the on-click attribute of the radio button elements. The chosen color must be sent to the event handler as a parameter. (10 Marks)
- 7 a. What is DTD? Explain how to declare elements, attributes and entities in DTD. (10 Marks)
b. Write a note on XSLT style sheets. Give an example of using these style sheets to an XML document. (06 Marks)
c. How do we use CSS-Style sheet for an XML documents. (04 Marks)
- 8 a. Explain the following in Perl: i) String handling functions; ii) File handle. (08 Marks)
b. Describe basics of Perl functions. (06 Marks)
c. Write a note on: i) Cookies; ii) CGI. (06 Marks)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.