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13MCA15

**First Semester MCA Degree Examination, Dec.2015/Jan.2016**  
**Introduction to Web Technologies**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

1. a. Explain DNS with a neat diagram. (06 Marks)  
 b. Explain the phase of HTTP protocol. (08 Marks)  
 c. Write short notes on :  
     i) Security issues in internet  
     ii) Internet applications. (06 Marks)
2. a. Write short notes on :  
     i) Search engines  
     ii) Application servers. (10 Marks)  
 b. What is document type definition and why it is needed? Write its format. (04 Marks)  
 c. Explain the following with reference to XHTML :  
     i) Heading tag  
     ii) Image tag  
     iii) ROWSPAN and COLSPAN. (06 Marks)
3. a. Explain the various types of lists that can be used in a XHTML document with examples. (08 Marks)  
 b. How do you embed frames in XHTML? Give example. (06 Marks)  
 c. What are the various levels of style sheets? Briefly explain each category with example. (06 Marks)
4. a. With example, give the basic structure of JavaScript. (04 Marks)  
 b. Create a web page which uses prompt( ) dialogs to ask a user for name, class and marks. Display the information they enter on the page. (06 Marks)  
 c. How do you create arrays in JavaScript? Explain the various array methods with examples. (10 Marks)
5. a. What is DOM? Describe the DOM structure for simple document. (06 Marks)  
 b. Explain the various events that can be handled in JavaScript. (10 Marks)  
 c. Briefly explain the following with respect to JavaScript along with an example :  
     i) alert method  
     ii) The navigator object. (04 Marks)
6. a. With example explain positioning of elements in JavaScript. (08 Marks)  
 b. How stacking of elements can be done? Give example. (06 Marks)  
 c. Explain how do you declare elements and attributes in a XML document. (06 Marks)
7. a. Briefly explain namespace and schema in XML. (06 Marks)  
 b. Explain the string functions in Perl. (06 Marks)  
 c. Briefly explain the following with respect to Perl :  
     i) Pattern matching  
     ii) File handling. (08 Marks)
8. a. Write a Perl program to use a cookie to remember the day of the last login from a user and display it when run. (10 Marks)  
 b. Write short notes on : i) CGI ii) XSL T (10 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.