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13MCA15

**First Semester MCA Degree Examination, June/July 2015**  
**Introduction to Web Technologies**

Time: 3 hrs.

Max. Marks: 100

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

1.
  - a. Differentiate Web and Internet. (04 Marks)
  - b. Explain Web Server characteristics. (06 Marks)
  - c. Discuss the HTTP Request and Response Phases. (10 Marks)
2.
  - a. Explain Internet Address Structure. (05 Marks)
  - b. Explain how Mail – related protocol Simple Mail Transfer Protocol (SMTP) works. (10 Marks)
  - c. Briefly explain the role of Firewall as a component of web. (05 Marks)
3.
  - a. Write an XHTML program to demonstrate the usage of definition list < dl >. (05 Marks)
  - b. Explain any 5 selector forms of CSS. (10 Marks)
  - c. Differentiate < span > and < div > tags, with suitable example. (05 Marks)
4.
  - a. What is JavaScript? List its uses. (05 Marks)
  - b. Explain primitive data types in Java Script. (05 Marks)
  - c. How do you create and modify objects in Java Script? (05 Marks)
  - d. Write a Java Script function that validates 16 digit bank account numbers. (05 Marks)
5.
  - a. What is Document Object Model (DOM)? Explain dom tree structures for a simple html document. (05 Marks)
  - b. Explain with suitable example how you handle events from Text Box and Password field of a form. (10 Marks)
  - c. Explain steps involved in DOM2 Event Propagation. (05 Marks)
6.
  - a. Explain with suitable example how JavaScript handles :
    - i) Element visibility
    - ii) Stacking Images. (10 Marks)
  - b. Demonstrate with an example how Java Script aids Dynamic Content concept. (10 Marks)
7.
  - a. What is Well formedness of a XML document? (05 Marks)
  - b. Explain the two user – defined XML Schema data types (Simple Type and Complex Type). (10 Marks)
  - c. What is XSLT and explain how an XSLT document is processed. (05 Marks)
8.
  - a. What is Perl? Write a program in perl which accepts input and display output using keyboard and screen. (05 Marks)
  - b. Discuss Hashes in Perl. (05 Marks)
  - c. How do you reference and dereference scalar variables in Perl? (05 Marks)
  - d. What is the importance of CGI.pm module in Perl? (05 Marks)

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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.