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10CS73

**Seventh Semester B.E. Degree Examination, Dec.2017/Jan.2018**  
**Programming the Web**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting at least TWO questions from each part.**

**PART – A**

- 1
  - a. Describe with figure how domain name conversion happens on the web. (05 Marks)
  - b. Explain the syntactic differences between HTML and XHTML. (05 Marks)
  - c. Explain the following tags with examples: (i) img (ii) a (iii) pre (iv) sub (v) meta (10 Marks)
- 2
  - a. Explain the different levels of style sheets. (06 Marks)
  - b. Create, test and validate an XHTML document that defines a table with columns for states, state bird, state flower and state trees. There must be atleast three states as rows in the table. Include cellpadding and cellspacing attributes. (07 Marks)
  - c. With a neat figure of box model. Explain borders, margin and padding. (07 Marks)
- 3
  - a. Explain the Javascript string property and methods with example. (06 Marks)
  - b. Write a Javascript to check validity of a mobile phone number. (05 Marks)
  - c. Explain any six Javascript array methods. (09 Marks)
- 4
  - a. What are the three ways of accessing XHTML document elements in Javascript? (08 Marks)
  - b. Explain the following with an example, (i) Stacking of elements (ii) Element visibility (iii) Absolute positioning (iv) Dynamic content. (12 Marks)

**PART – B**

- 5
  - a. Create a XML document for one student of VTU to illustrate XSLT formatting. Create XSLT style sheet by child templates. (10 Marks)
  - b. Create a XML document that lists ads for used airplane. Create a DTD for the same document. (10 Marks)
- 6
  - a. Explain the Arrays and Hashes in Perl. (08 Marks)
  - b. Explain session and cookies in Perl. (06 Marks)
  - c. Write a note on CGI-PM module. (06 Marks)
- 7
  - a. List and explain any 6 commonly used string functions in php. (07 Marks)
  - b. Write a note on php files. (07 Marks)
  - c. Explain session tracking in web applications. (06 Marks)
- 8
  - a. Describe briefly the MVC architecture and the ORM used by rails. (08 Marks)
  - b. Write a note on methods in Ruby. (06 Marks)
  - c. Explain the layouts with respect to rails. (06 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.