USN ☐☐☐☐☐☐☐☐☐☐   **10CS73**

Seventh Semester B.E. Degree Examination, June/July 2018

Programming the Web

Time: 3 hrs.   Max. Marks:100

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

PART – A

1   a.   Discuss Web Server operations and its characteristics.   **(05 Marks)**
    b.   Illustrate the following tags with an example:
         i) <img>   ii) <pre>
         iii) <meta>   iv) content-based style tags   **(10 Marks)**
    c.   Create a XHTML document to illustrate hyperlinks within a document.   **(05 Marks)**

2   a.   Illustrate the following with an example:
         i) <select>   ii) <textarea>
         iii) rowspan and colspan attributes   iv) <frameset>   **(08 Marks)**
    b.   Explain different selector forms with an example each.   **(06 Marks)**
    c.   Create and test a XHTML document that includes at least two images and enough text to
         precede the images, flow around them (one on the left and one on the right), and continue
         after the last image.   **(06 Marks)**

3   a.   Describe the string properties and methods of JAVA script with an example. **(05 Marks)**
    b.   Develop a JS to accept a line of text using prompt and display the words of the input text, in
         alphabetical order.   **(05 Marks)**
    c.   Explain the JS Array Methods with an example.   **(10 Marks)**

4   a.   Discuss element access in JS.   **(06 Marks)**
    b.   Explain DOM Tree traversal properties and modification methods.   **(05 Marks)**
    c.   Describe absolute, relative and static positioning of elements in JS.   **(09 Marks)**

PART – B

5   a.   What is DTD? Differentiate between Internal and External DTD. Show how Elements,
         Attributes and Entities are declared in DTD with an example.   **(12 Marks)**
    b.   Explain the working of XSLT processor with a neat diagram.   **(04 Marks)**
    c.   Discuss the purposes of XML processors.   **(04 Marks)**

6   a.   Discuss in detail the three categories of variables in Perl.   **(10 Marks)**
    b.   Develop a perl program to illustrate some of the features of perl.
         Input :   A file of lines of employee data, where each line has name : age : department
                   code : salary
         Output : 1. The names of all employees whose names end with "son"
                   2. Percentage of employees under 40 years old.
                   3. Average salary of employees under 40 years old
                   4. An alphabetical list of employees who are under 40 years old and who
                       have salaries more than $40,000
                                                                                   (10 Marks)

7 a. Discuss file operations of PHP.   (10 Marks

  b. Develop a PHP program, which uses a function to split a given string of text into it constituent words. It also determines the frequency of occurrence of each word. The word are separated by whitespace or punctuation, possibly followed by whitespace. Th punctuation can be a period, a comma, a semicolon, a colon, an exclamation point, or question mark.   (10 Marks

8 a. Discuss the pattern matching operations of Ruby.   (10 Marks

  b. Explain Rails Applications with Databases.   (10 Marks

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