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10CS73

**Seventh Semester B.E. Degree Examination, Aug./Sept. 2020**  
**Programming the Web**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. What is a internet? What is the task of a DNS Name Server? (06 Marks)  
b. Explain the hypertext transfer protocol. (10 Marks)  
c. Give and explain the syntax of the following :  
i) <meta> ii) <img> iii) <a> iv) <blockquote>. (04 Marks)
- 2 a. Create a XHTML document to describe a table with the following contents of the column of a table must have the heading's pine, maple, oak and fir the rows must have the labels average height, average width typical lifespan and leaf type include align, cellpadding and cell padding. (10 Marks)  
b. Explain the different selector forms provided in CSS. Illustrate the use of each with suitable example. (10 Marks)
- 3 a. Explain with a example the screen output and key board input method in JavaScript. (06 Marks)  
b. Write a XHTML document and JavaScript function to validate the USN (2XX15XX999) and mobile number (99999 – 99999). (08 Marks)  
c. Write a JavaScript function to find median of an array numbers. (06 Marks)
- 4 a. What is an event and event handler? Write a XHTML document and event handling in JavaScript to handle the event from body and button elements with example. (10 Marks)  
b. Explain the different types of positioning with example. (06 Marks)  
c. What event can be used to change font when the mouse cursor is moved over and away from an element? With example. (04 Marks)

**PART – B**

- 5 a. How elements and attributes are declared in DTD give a sample DTD for defining an airplane. (10 Marks)  
b. Explain why CSS style sheet is required for XML document with example. (04 Marks)  
c. How elements and attributes are declared in DTD give a sample DTD for defining an airplane. (06 Marks)
- 6 a. What are the three categories of Perl variables with example? (06 Marks)  
b. How files are handled in Perl? List files use specification and their meaning. (08 Marks)  
c. What is a query string? How is it transmitted to the server with Get and Post methods? (06 Marks)
- 7 a. Explain the array creation in PHP. (10 Marks)  
b. How can the value of a form element be accessed by PHP script with example. (10 Marks)
- 8 a. Explain the different ways to create arrays in Ruby. Write a Ruby program to illustrate the use of array a list of line text where each line is a person name all letters are converted to uppercase in alphabetical order. (08 Marks)  
b. Define a class. Define Ruby class to implement a stage like structure in an array. (08 Marks)  
c. Explain the over-view of Rails. (04 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.