

**P.E.S. College of Engineering, Mandya - 571 401***(An Autonomous Institution affiliated to VTU, Belagavi)***Fifth Semester, B.E. - Computer Science and Engineering****Semester End Examination; Feb. - 2021****Web Technologies**

Time: 3 hrs

Max. Marks: 100

Course Outcomes*The Students will be able to:**CO1: Develop web pages using various XHTML tags.**CO2: Design interactive web pages using java script.**CO3: Create dynamic documents using DOM object model.**CO4: Develop web pages using PHP scripts.**CO5: Implement simple application using Ajax.***Note: I) PART - A is compulsory. Two marks for each question.****II) PART - B: Answer any Two sub questions (from a, b, c) for Maximum of 18 marks from each unit.**

| Q. No. | Questions | Marks | BLs | COs | POs |
|----------------------|---|-----------|------|-----|-----|
| I : PART - A | | 10 | | | |
| I a. | What is the form of an IP address? | 2 | L1 | CO1 | PO1 |
| b. | What is the advantage of document level style sheets over inline style sheets? | 2 | L1 | CO2 | PO1 |
| c. | What events can be used to change a front when the mouse cursor is moved over and away from an element? | 2 | L2 | CO3 | PO1 |
| d. | How does an XSLT processor use an XSLT style sheet with an XML document? | 2 | L2 | CO4 | PO2 |
| e. | What is the goal of the use of Ajax in a web application? | 2 | L1 | CO5 | PO1 |
| II : PART - B | | 90 | | | |
| UNIT - I | | 18 | | | |
| 1 a. | What is fully qualified domain name? Explain with a block diagram domain name conversion into IP address. | 9 | L1,2 | CO1 | PO1 |
| b. | Create an XHTML document that describes a table with the following contents. i) The columns of the table must have the headings Pine, Maple, oak and Fir ii) The rows must have the labels Average height, Average width, Typical life span and leaf type Fill the data with necessary values. | 9 | L5 | CO1 | PO2 |
| c. | Create an XHTML document that has a form with the following controls: I) A textbox to collect the users name II) Four checkboxes, one each for the following items: i) Four 25-watt light bulbs for \$ 2.39 ii) Eight 25-watt light bulbs for \$4.29 iii) Four 25-watt long-life light bulbs for \$3.95 iv) Eight 25-watt long-life light bulbs for \$ 7.49 III) A collection of three radio buttons that are labeled as follows: i) Visa ii) Master card iii) Discover | 9 | L5 | CO1 | PO2 |

UNIT - II**18**

- 2 a. Explain the different levels of style sheets with their format specification. 9 L2 CO2 PO1
- b. Explain the various selector forms used in CSS with an example for each. 9 L2 CO2 PO1
- c. Write an XHTML document that includes JavaScript to accept three numbers using prompt and to display the largest number using document.write. 9 L5 CO2 PO2

UNIT - III**18**

- 3 a. List and explain different ways of accessing the elements of an XHTML document in JavaScript. Give an example for each. 9 L1,2 CO3 PO1
- b. Explain different properties of positions elements in JavaScript with examples. 9 L2 CO3 PO1
- c. Write a JavaScript program that illustrates dynamic stalking of images. 9 L3 CO3 PO2

UNIT - IV**18**

- 4 a. With examples, explain declaring elements, declaring attributes and declaring entities in DTD. 9 L2 CO4 PO1
- b. Explain how to create array in PHP with example. Also discuss any four array functions in PHP with example. 9 L2 CO4 PO2
- c. Explain different sort functions available to sort the given array in PHP with example for each. 9 L2 CO4 PO2

UNIT - V**18**

- 5 a. Explain traditional and Ajax browser interactions with diagram. 9 L2 CO5 PO1
- b. Explain request and response phase of Ajax with example code. 9 L2 CO5 PO1
- c. Explain page level events and control events in ASP.NET. 9 L2 CO5 PO1

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