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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. - Computer Science and Engineering

Semester End Examination; Jan. / Feb. - 2021

Web Technologies

Time: 3 hrs *Max. Marks: 100*

***Note**: Answer **FIVE** full questions, selecting **ONE** full question from each unit.*

UNIT - I

1 a. How does domain name conversion happen on the web? Describe the concept, with a figure. 6

b. Explain HTTP phases. Mention various methods and status codes of HTTP. 8

c. Explain the standard XHTML document structure. 6

2 a. Explain the following tags with an example for each:

i) <a> ii) <pre> iii) <p>

iv) <block quote> v)
 5

b. Explain the different image formats. Write XHTML document to illustrate the use of <img>. 8

c. Create the XHTML document to illustrate hyperlinks within a document. 7

UNIT - II

3 a. Explain the different types of list in XHTML. 6

b. Explain all controls that are created with the <input> tag with example, which are used for text collection. 8

c. Create XHTML document that defines a table with five rows and five columns. The first row should contain country name, gold, silver, bronze and total in each column respectively. Fill in the information details in the table with appropriate values. After filling the details set red color to the background for the first row, blue for the second, yellow color for the third, purple for the fourth and green for the fifth row. Use of align and valign attributes for this table has to be made at the appropriate places. 6

4 a. Explain different levels of style sheets with examples. 6

b. Explain any four selector forms used in CSS with their syntax. Give an example for each. 8

c. Write an XHTML document that has six short paragraphs of text. Define three different paragraphs styles P1, P2 and P3. The P1 style must use left and right margins of 20 pixels, a background color of yellow, and a foreground color of blue. The P2 style must use font size of 18 points, font name 'Arial' and font style in italic form. The P3 style must use a text indent of 1 centimeter, a background color of green, and a foreground color of white. The 1st and 4th paragraph must use P1, the 2nd and 5th must use P2 and 3rd and 6th must use P3. 6

Contd…2

UNIT - III

5 a.	Explain the different primitive types of Javascript.	6
b.	What are the uses of Javascript? Are OOP concepts incorporated in Javascript? How objects are handled in it?	6
c.	Explain with examples, the screen output and keyboard input methods.	8
6 a.	Explain the following objects available in Javascript. List atleast three methods available with them; i) Math object ii) Number object iii) Date object iv) Array object	8
b.	Explain the concept of Constructors in Javascript.	4
c.	Write a Javascript that contains a functions named tst_phone_num, which sets the phone number of the format ddd-dddd-ddddddd <091-8256-1234567> and display whether the given number is valid or not using alert.	8

UNIT - IV

7 a.	Explain the DOM structure for a simple document.	6
b.	Discuss any two methods of Element Access in Javascript. Give example for both.	7
c.	With the help of an example, explain any one event associated with the following elements: i) Body ii) Button iii) Textbox	7
8 a.	Explain the different techniques to position elements in XHTML. What are the standard values for visibility property? How are they used?	8
b.	Develop an XHTML document with Javascript to illustrate the stacking of images.	8
c.	Explain Client X and Client Y properties.	4

UNIT - V

9 a.	Explain the primitives, operations and expressions in PHP.	7
b.	Explain the different control statements in PHP with a PHP program.	7
c.	Write a PHP program to display a digital clock which displays the current time of the server.	6
10 a.	Explain different functions available in PHP for handling files. Give examples for opening, closing, reading and writing to files.	8
b.	Explain the pattern matching concept using PHP.	5
c.	Write a PHP program to do the following: i) Addition of two matrices ii) Multiplication of two matrices iii) Find the transpose of a matrix	7

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