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

(An Autonomous Institution affiliated to VTU, Belgaum)

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

Semester End Examination; Dec. - 2015

Web Technology

Time: 3 hrs

Max. Marks: 100

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

### PART - A

1. a. Explain the task of a DNS name server. 5
- b. Explain the response phase of HTTP. 5
- c. Give syntax and an example to each of the following tags:
  - (i) <pre> (ii) <a> 10
  - (iii) <img> (iv) <sub> (v) <P>
2. a. Explain with example the following with respect to table creation in XHTML DOCUMENTS.
  - (i) Align and Valign attributes 10
  - (ii) tr, th and td tags
  - (iii) Cell padding and cell spacing attributes.
- b. Create an XHTML document to describe a table with the following contents: the columns of the table must have the headings pine, maple, oak and fir. The rows must have the labels average height, average width, typical lifespan and leaf type. Fill the data cells with some values. 10
3. a. Explain the following CSS tags, with an example for each:
  - (i) class selectors (ii) Pseudo class 10
  - (iii) Background images (iv) Text decoration
- b. Create an XHTML document that includes at least 2 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 (Note: Use CSS tags for the problem). 10
4. a. Explain with examples, the screen output and keyboard input methods. 6
- b. Write a java script to accept 3 numbers, using the prompt method. Find and display the largest of 3 using alert method. Use predefined function Math.Max. 6
- c. Write a java script that contains a function named tst-phone-num, which tests the phone number for the format ddd-dddd-dddddd <091-8256-1234567> and display whether the given number is valid or not using alert. 8

Contd...2

**PART - B**

- 5 a. With an example, explain *onfocus* event in Java script. 5
- b. Describe the approach to address XHTML elements using forms and elements. 5
- c. Write an XHTML document which displays a form containing text elements to input register number, subject-code, marks in 3 tests and a button element. Also write Java script code to compute average of 3 tests onclick of button and print average marks using alert. 10
- 6 a. With example, explain absolute and relative positioning of elements in Java script. 10
- b. Write an XHTML document that contains 3 short paragraphs of text, stacked on top of each other, with only enough of each showing , so that mouse cursor can always be placed over some part of them. Write java script code so that when cursor is placed over the exposed part of any paragraph, it should rise to the top to be completely visible. 10
- 7 a. What is DTD? Describe the approach to declare element entities and attributes. 8
- b. With a neat diagram, explain the transformation process by an XSLT processor. 7
- c. Describe briefly an XML name space. 5
- 8 a. With an example, explain how files are handled in PERL. 10
- b. Write a CGI- PERL program to use a cookie to remember the day of the last login, from a user and display it when executed. 6
- c. Write a note on CGI-pm module. 4

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