

--	--	--	--	--	--	--	--	--	--



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

(An Autonomous Institution affiliated to VTU, Belgaum)

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

Semester End Examination; Dec - 2016/Jan - 2017

Web Technologies

Time: 3 hrs

Max. Marks: 100

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

### UNIT - I

- 1 a. Describe a fully qualified domain name and explain how fully qualified domain names are converted into IP. 6
- b. What is HTTP? Describe the purpose of five most commonly used HTTP methods. 10
- c. Differentiate between Web and Internet. 4
- 2 a. Explain each of the following tags with example; 10
- i) <a>tag ii) <img> iii) <form> iv) <select> v) <input>.
- b. Create an XHTML document that has a form with the following controls; 10
- i) A text box to collect your name
- ii) 3 check boxes to collect your degree B.E., M. Tech, Ph. D.
- iii) 4 radio buttons to collect age 0 - 19, 20 - 35, 36 - 50, over 50
- iv) Submit and Reset buttons.

### UNIT - II

- 3 a. What is CSS? Explain the different levels of style sheets. 8
- b. Explain the various selector forms with example. 8
- c. List all the font properties. 4
- 4 a. Explain three major uses of Java script on client side. 6
- b. Create an XHTML document that includes Java script for the following: 6
- Input: A number  $n$  obtained using prompt
- Output: First  $n$  Fibonacci numbers.
- c. Create an XHTML document that includes Java script which uses function for the following: 8
- Parameter : A number
- Output : Number with its digits in the reverse order.

### UNIT - III

- 5 a. What is DOM? Explain the DOM structure for a simple document. 6
- b. Explain the different ways of accessing elements of an XHTML document in Java script. 8
- c. Explain event, event handler and event registration in Java script. 6

- 6 a. Define dynamic XHTML document. Explain different ways of positioning elements. 8  
b. Write an XHTML document and Java script to illustrate the visibility control of images. 8  
c. What is stacking of images? 4

**UNIT - IV**

- 7 a. What is DTD? Explain elements, attributes and entity declaration in a DTD with an example. 10  
b. What is an XML schema? Explain XML schema definition. 6  
c. In what ways style sheet information is provided to the browser for an XML document? 4  
8 a. Explain the syntax of a simple XML document with an example. 8  
b. Explain name spaces with an example. 6  
c. How does an XSLT processor can use an XSLT style sheet with an XML document? 6

**UNIT - V**

- 9 a. Explain the commonly used string functions in PHP. 8  
b. What are the two ways to create an array in PHP? 6  
c. Explain the internal logical structure of an array in PHP with the help of a diagram. 6  
10 a. What are the cookies? Explain the functions used in PHP which support cookies. 8  
b. Explain the PHP functions that connect and selects a database. 6  
c. Explain the various PHP functions used for requesting MYSQL operations. 6

\* \* \*