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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; Dec. - 2019

Web Technologies

Time: 3 hrs *Max. Marks: 100*

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

UNIT - I
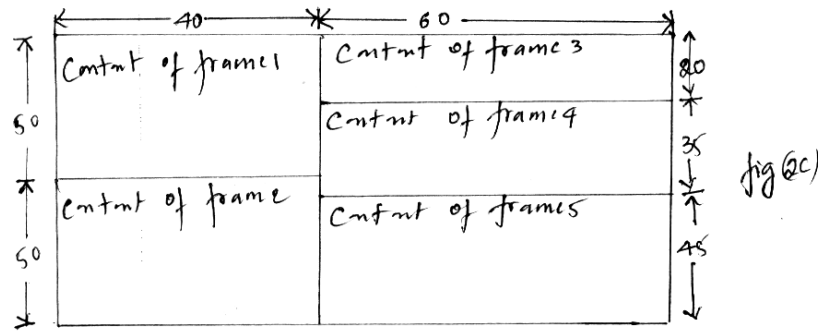
1 a.	What is MIME? Explain its specifications.	4
b.	What is HTTP? Explain its phases in detail.	6
c.	Explain the following tags with example:	
	i) <img> ii) <a> iii) <pre>	10
	iv) <sub> v) <meta>	
2 a.	Design an XHTML code for the following Fig. 2a:	6

fig(2a)

b.	Design an XHTML code for the following Fig. 2b:		9

fig(2b)

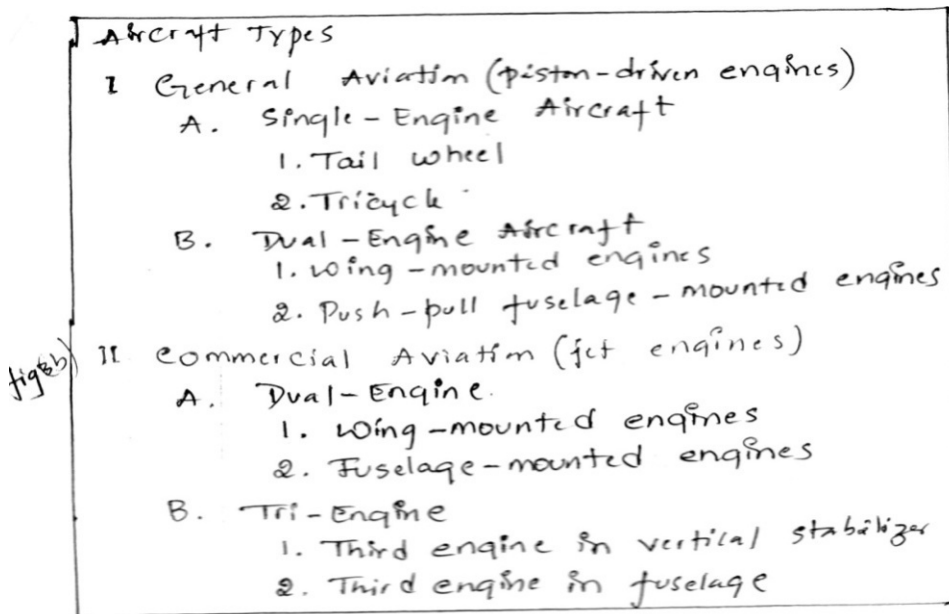c. Design an XHTML code for the following Fig. 2c: 5

fig (2c)

UNIT - II

3 a. With a neat diagram of box model, explain Border, Margin and Padding. 7

b. Design an XHTML code for the following Fig. 3(b): 8

fig (3b)

c. List all Font properties. 5

4 a. Write the JavaScript that reads an integer and displays whether it is a prime or not. 6

b. Explain the object creation and modification in JavaScript. 6

c. Write an HTML and Javascript program which accept *N* as input and displays first *N* Fibonacci numbers. 8

UNIT - III

5 a. Explain the Document Object Model. 6

b. Illustrate with JavaScript program handling of event from button elements. 6

c. Explain the different ways of accessing the elements of an XHTML document in JavaScript. Give an example. 8

6 a. Define dynamic XHTML document. Explain different properties of positioning element with example. 8

b. What are the standard values for visibility property? How are they used in dynamic XHTML? 4

c. Develop an XHTML document with Javascript to illustrate slow movement of elements. 8

UNIT - IV

7 a. What is Document Type Definition (DTD)? Describe the approach to declare elements, entities and attributes.   8

   b. Describe briefly an XML namespace. What are the two categories of user defined XML schema data type?   6

   c. Explain the transformation process by an XSLT processor with a flow diagram.   6

8 a. Create HTML form with one text box to get user's name. Also write PHP code to show length of entered name when the HTML form is submitted.   6

   b. Write a PHP program to read a text file line by line and to display it on screen.   6

   c. Explain the commonly used string functions in PHP.   8

UNIT - V

9 a. Explain how to build a hello world application in Rails?   10

   b. Explain any one approach to produce dynamic document using Rails.   10

10 a. Explain traditional browser interactions with a server and Ajax interactions with a server with the help of a diagram.   10

   b. Explain request and response phase of Ajax.   10

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