



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: 10
 - i)
 - ii) <a>
 - iii) <pre>
 - iv) <sub>
 - v) <meta>
- 2 a. Design an XHTML code for the following Fig. 2a:

Fruit Juice Drinks and Meals

	Fruit Juice Drinks		
	Apple	Grape	Orange
Breakfast	0	1	0
Lunch	1	0	0
Dinner	0	0	1

fig(2a)

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

welcome to ABC club
 Popcorn Sales

Buyer's Name:

Street Address:

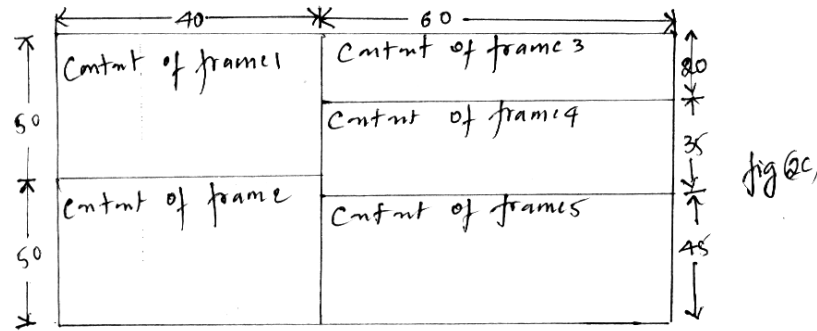
City, State,

Product Name	Price	Quantity
Unpopped Popcorn (1lb.)	15 rps	<input type="text"/>
Caramel Popcorn (2lb)	20 rps	<input type="text"/>
Caramel Nut Popcorn (2lb)	25 rps	<input type="text"/>
Toffey Nut Popcorn (2lb)	30 rps	<input type="text"/>

Payment Method:
 Visa Master Card Discover Check

fig(2b)

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



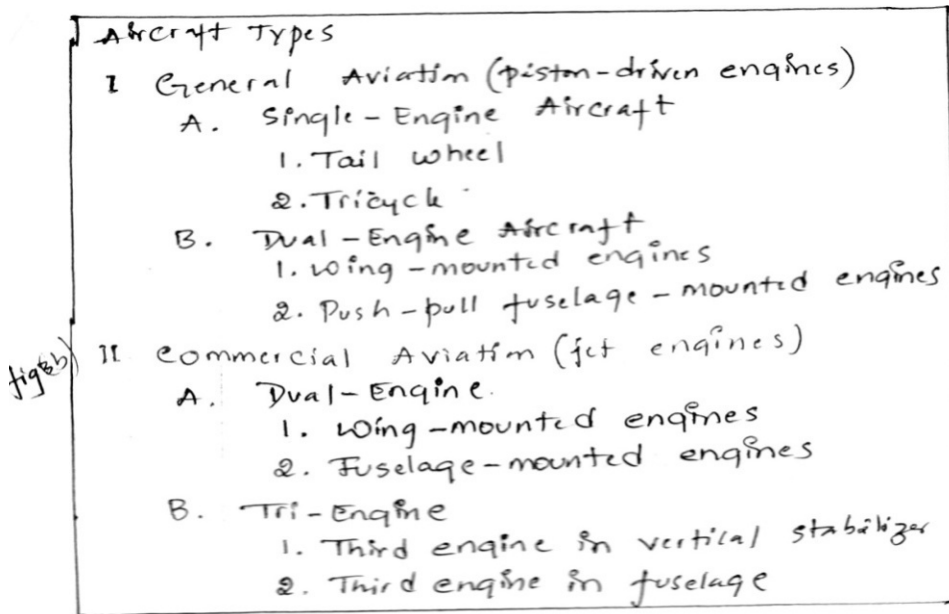
5

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

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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