U.S.N



Time: 3 hrs

# 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

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.

b. What is HTTP? Explain its phases in detail.

- c. Explain the following tags with example:
  - i) <img> ii) <a> iii)
  - iv) <sub> v) <meta>
- 2 a. Design an XHTML code for the following Fig. 2a:

	Fruit	Juice -	Drinks and	J9cals
	Fruit Nuice Drinks			
	Apple	Grape	Diange	
Breakfast	0	1	0	tiger
Lunch	1	0	0	
Pinner	0	0	1	

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

	Popcoin Sales		
-	Buyer's Name:		
	Strut Address:	-	
	City, State,	1999	
	Product Name	price	Quality
	Vapoped Popcoin (116.)	15 Fps	
(25)	Caramel Popcan (216)	20 105	
Je	Caramel Nut Jopcan (216)	28605	
	Totty Not Popcoin (215)	30rps	
	Payment Method:	warmer.	1
	Ovisa Optasta Card	O Discov	~ O Check
	Otish Optasia Ca		

4

6

10

6

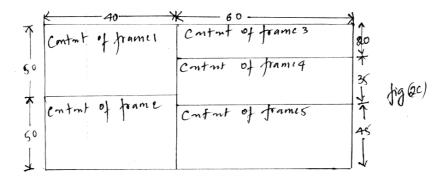
5

7

8

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



#### UNIT - II

- 3 a. With a neat diagram of box model, explain Border, Margin and Padding.
  - b. Design an XHTML code for the following Fig. 3(b):

Arcraft Types Greneral Aviation (pestin-driven engines) A. Single-Engine Aircraft 1. Tail wheel 2. Tricych Dual - Engine Aircraft Β. 1. Wing - mounted engines 2. Push-pull fuselage - mounted engines Commercial Aviation (fet engines) figer Dual-Engine. 1. Wing-mounted engines 2. Fuselage-mounted engines B. Tri-Engine 1. Third engine in vertical stabilizer 2. Third engine in fuselage

List all Font properties. 5 с. 4 a. Write the JavaScript that reads an integer and displays whether it is a prime or not. 6 Explain the object creation and modification in JavaScript. b. 6 Write an HTML and Javascript program which accept N as input and displays first N c. 8 Fibonacci numbers. **UNIT - III** 5 a. Explain the Document Object Model. 6 b. Illustrate with JavaScript program handling of event from button elements. 6 Explain the different ways of accessing the elements of an XHTML document in JavaScript. с. 8 Give an example. Define dynamic XHTML document. Explain different properties of positioning element 6 a. 8 with example. What are the standard values for visibility property? How are they used in dynamic XHTML? b. 4 Develop an XHTML document with Javascript to illustrate slow movement of elements. 8 c.

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## UNIT - IV

7 a.	7 a. What is Document Type Definition (DTD)? Describe the approach to declare elements, entities and attributes.			
b.	b. Describe briefly an XML namespace. What are the two categories of user defined XML schema			
	data type?			
c.	Explain the transformation process by an XSLT processor with a flow diagram.	6		
8 a.	a. Create HTML form with one text box to get user's name. Also write PHP code to show length			
	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.	0 a. Explain traditional browser interactions with a server and Ajax interactions with a server with the help of a diagram.			
b.	Explain request and response phase of Ajax.	10		

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