U.S.N

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

(An Autonomous Institution affiliated to VTU, Belagavi)

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

Semester End Examination; August - 2023

Web Technologies

Time: 3 hrs   *Max. Marks: 100*

Course Outcomes

The Students will be able to:

CO1: Develop web pages using various XHTML tags.

CO2: Design interactive web pages using java script.

CO3: Create dynamic documents using DOM object model.

CO4: Develop web pages using PHP scripts.

CO5: Implement a simple Rails application using Ajax.

<u>*Note:*</u> I) **PART - A** is compulsory. **Two** marks for each question.

    II) **PART - B**: Answer any <u>**Two**</u> sub questions (from a, b, c) for a Maximum of **18 marks** from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
	I : PART - A	**10**			
1 a.	Define the term web browser and web server.	2	L1	CO1	PO1
b.	What are the different list properties?	2	L1	CO2	PO1
c.	Write any four features of JavaScript.	2	L1	CO3	PO1
d.	Write the difference between HTML and XML.	2	L1	CO4	PO1
e.	What is an AJAX and mention the need of AJAX.	2	L1	CO5	PO1
	II : PART - B	**90**			
	UNIT - I	**18**			
2 a.	Explain the request phase and response of HTTP.	9	L2	CO1	PO1
b.	Construct a webpage that has a form to take input from student to enroll for the course. Let the form have input of name, gender, emailed, DOB, input to take multiline text for address.	9	L3	CO1	PO1,2,3
c.	Explain the different tags associated with tables and illustrate the same with an example.	9	L2	CO1	PO1
	UNIT - II	**18**			
3 a.	Explain Box model with a neat diagram.	9	L2	CO2	PO1
b.	Construct a webpage consisting of 2 paragraphs. i) Set paragraph 1 front size to 20 px, text colour to red, front family to Calibri ii) Set paragraph 2 to border-type to dash, background colour to red and text align to center	9	L3	CO2	PO1,2,3
c.	Explain how to define and invoke a function in JavaScript with the help of an example.	9	L2	CO2	PO1

UNIT - III	**18**			
4 a. Explain the concept of event handling in java script using a suitable example.	9	L2	CO3	PO1
b. Explain the concept of positioning elements with its attributes.	9	L2	CO3	PO1
c. Design a JavaScript program to display the area of circle by taking radius from the user.	9	L3	CO3	PO1,2,3
UNIT - IV	**18**			
5 a. List the advantages and disadvantages of XML.	9	L1	CO4	PO21
b. Write the fundamentals of PHP.	9	L1	CO4	PO1
c. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, and name of the college, pgm, year of joining and emailed. Make-Up sample data for three students	9	L3	CO4	PO1,2,3
UNIT - V	**18**			
6 a. Explain the request and response in a Rails application.	9	L2	CO5	PO1
b. Explain the AJAX web application model / mechanism of AJAX with a neat diagram.	9	L2	CO5	PO1
c. Create a simple xml http request and retrieve data from a TXT file.	9	L3	CO5	PO1,2,3

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