

# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## September / October 2023 Semester End Main Examinations

**Programme:** B.E.

**Branch:** Common to all Branches

**Course Code:** 22CS1ESWEB / 22CS2ESWEB

**Course:** Introduction to WEB Programming

**Semester:** I / II

**Duration:** 3 hrs.

**Max Marks:** 100

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			UNIT - I	CO	PO	Marks
	1	a)	With an example code snippet discuss the following html tags:- i. Heading Tag                      ii. Line Break iii. <sub> & <sup>                      iv. <u> & <i>	CO1	PO1	8
		b)	With a neat block diagram discuss the role of DNS systems	CO1	PO1	6
		c)	Apply suitable HTML Tag and create a list to display the contents as per the table given below  <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;">           Beverages:  <ul style="list-style-type: none"> <li>Coffee</li> <li>Tea</li> <li>Milk</li> </ul>           Snacks:  <ol style="list-style-type: none"> <li>Biscuits</li> <li>Bread</li> <li>Mixture</li> </ol> </div>	CO1	PO1	6
			UNIT - II			
	2	a)	Design an document that defines a table that has two levels of column labels: an overall label, Meals, and three secondary labels, Breakfast, Lunch and Dinner. There must be two levels of row labels: an overall label, Foods and four secondary labels, Bread, Main course, Vegetable and Dessert. The cells of the table must contain a number of grams for each of the food categories.	CO1	PO2	8
		b)	Differentiate between HTML and XHTML	CO1	PO1	5
		c)	Design a web page that includes USN, NAME, SEMESTER, GENDER, SUBMIT and RESET BUTTONS using suitable HTML tags.	CO1	PO1	7
			UNIT - III			
	3	a)	With an example code snippet discuss different types of selectors available in CSS.	CO2	PO1	10

	b)	With an example code snippet discuss the positional properties present in CSS	CO2	PO1	10										
		OR													
4	a)	With an example code snippet discuss the working of Inline CSS, Document level CSS and External level CSS in detail	CO2	PO1	10										
	b)	Discuss the concept of box model in detail.	CO2	PO1	10										
		UNIT – IV													
5	a)	Discuss the primitive types in Java Script with an example for each.	CO2	PO1	10										
	b)	With an example code snippet discuss the following: i. Confirm box                      ii. Prompt box iii. For loop                          iv. Date object	CO2	PO1	10										
		OR													
6	a)	Write a JavaScript program for validating the username and a phone number.	CO4	PO3	10										
	b)	Differentiate with an example the following operators == & == ==	CO2	PO1	5										
	c)	Discuss the following string handling methods in JS with an example: i. charAt ii. indexOf iii. Substring	CO2	PO1	5										
		UNIT - V													
7	a)	For billing purpose an Electric board asks a customer to fill up the form with the following fields: - i. The form collects User's Name with max length of 15 characters. ii. 10 Digit Customer ID iii. Billed to customer based on total number of units consumed. <table border="1"><thead><tr><th>Units consumed</th><th>Amount per unit</th></tr></thead><tbody><tr><td>0 – 100 units</td><td>Rs. 250</td></tr><tr><td>101 - 200 units</td><td>Rs. 250 + Rs.0.60 per units excess</td></tr><tr><td>201 - 300units</td><td>Rs. 310 + Rs. 1.50 per units excess</td></tr><tr><td>301 and above</td><td>Rs 460 + Rs.3.0 per units excess</td></tr></tbody></table> Write a program to design an application using HTML and JavaScript to compute bill based on units excess consumed.	Units consumed	Amount per unit	0 – 100 units	Rs. 250	101 - 200 units	Rs. 250 + Rs.0.60 per units excess	201 - 300units	Rs. 310 + Rs. 1.50 per units excess	301 and above	Rs 460 + Rs.3.0 per units excess	CO4	PO3	10
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	b)	With an example code snippet explain how to handle events from text box and password Element.	CO4	PO3	10										