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

Autonomous Institute Affiliated to VTU

## October 2024 Supplementary Examinations

Programme: B.E.

Semester: I / II

Branch: Common to all Branches

Duration: 3 hrs.

Course Code: 22CS1ESWEB / 22CS2ESWEB

Max Marks: 100

Course: Introduction to Web Programming

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

### UNIT - I

1 a) Design a HTML5 webpage using HTML elements for kindergarten school advertisement. The document must contain the following: 10

- School Heading
- Navigation to Home, About us and Contact us
- Insert a suitable image along with suitable caption
- List the special features provided to kids by the school
- A paragraph of two lines which describes about school and display the following output

*Limited seats available!*

#### **Registration opens**

First Deadline: 2<sup>nd</sup> March 2023—

Second Deadline: 10<sup>th</sup> April 2023

Last date to register: 25th April 2023

b) Distinguish between the following: 10

- i) web browser and web server
- ii) static webpage and dynamic webpage
- iii) HTML elements and HTML attributes

### UNIT - II

2 a) Illustrate the purpose of title, link, comment, script, style and meta tags under head section of HTML with an example. 10

b) Discuss table elements and cell spanning. Design the following table using table properties. 10

<b>Department1</b>	<b>Sem1</b>	<i>SubjectA</i>
		<i>SubjectB</i>
		<i>SubjectC</i>
<b>Projects</b>	<b>Sem2</b>	<i>SubjectE</i>
		<i>SubjectF</i>
		<i>SubjectG</i>
	<i>Mini project</i>	
	<i>Major project</i>	
	<i>Hobby project</i>	

**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 - III**

3 a) Explain the different types of CSS selectors with examples. **08**

b) Illustrate the CSS box model with an example. **06**

c) Create a class called income, and make it a background color of #0ff. Create a class called expenses, and make it a background color of #f0f. Create a class called profit, and make it a background color of #f00. Throughout the document, any text that mentions income, expenses, or profit, attach the appropriate class to that piece of text. Further create following line of text in the same document:

**The current price is Rs.50 and new price is Rs.40 (Red Color)**

**OR**

4 a) With appropriate examples, distinguish between inline, internal and external CSS. **08**

b) Explain different ways of positioning elements in CSS layout technique. **06**

c) Illustrate the font properties and color properties of CSS with an example. **06**

### **UNIT - IV**

5 a) What kind of variable typing is used in JavaScript (JS)? What benefits arise from this? Illustrate with an example. **06**

b) Write a JavaScript program to check the greatest of three numbers. **06**

c) Define arrays? Explain the array methods with example. **08**

**OR**

6 a) Explain Document Object Model with an example. **06**

b) Define string? Explain the different string methods. **06**

c) Write a JavaScript program to validate name (max length ten characters), email, telephone number and url using regular expression. **08**

### **UNIT - V**

7 a) Design a HTML and JS page that illustrate Mouse and Keyboard Events. **08**

b) Write a HTML code to accept two numbers using textboxes, when the user clicks on submit button, the JavaScript function need to perform basic arithmetic operations (add, sub, mul, div) for the two numbers and display the results. **06**

c) Write a JavaScript program to find the factorial of a number using recursion function. **06**

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