Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – December 2025

Date: 20 / 12/ 2025 **Time: 09:30am – 12:30pm**

School: SOCSE	**Program:** SOCSE	
Course Code: CSE2258	**Course Name:** Web Technologies	
Semester: **3rd**	**Max Marks**: **100**	**Weightage**: 50%

CO - Levels	**CO1**	**CO2**	**CO3**
Marks	**33**	**34**	**33**

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **10Q x 2M=20M**

1.	Describe the difference between div and span tag?	**2 Marks**	**L1**	**CO1**
2.	Differentiate cellpadding and cellspacing?	**2 Marks**	**L1**	**CO1**
3.	What is a web browser? Give two examples	**2 Marks**	**L1**	**CO1**
4.	When I want to apply style to a paragraph which is indie div tag, what type of selector is used? Explain its syntax	**2 Marks**	**L1**	**CO2**
5.	Outline the purpose of XSLT?	**2 Marks**	**L2**	**CO2**
6.	Define a pseudo-element selector and list any two pseudo-element selectors used in CSS.	**2 Marks**	**L2**	**CO2**
7.	Differentiate between local and global variables in PHP.	**2 Marks**	**L1**	**CO3**
8.	Name any four super global arrays in PHP.	**2 Marks**	**L2**	**CO3**
9.	Explain the purpose and functionality of the count() function in PHP.	**2 Marks**	**L2**	**CO3**
10.	Name any two mutable data types available in PHP.	**2 Marks**	**L2**	**CO3**

Part B

Answer the Questions. **Total Marks 80M**

11.	a.	Explain the concept of HTML frames in detail. Discuss the purpose, advantages, and disadvantages of using frames in web design. Describe the various frame tags used in HTML such as <frameset>, <frame>, and <noframes> with examples.	**10 Marks**	**L2**	**CO1**
	b.	Explain the following terms: 1. WWW 2. Web Browser 3. Web Server 4. DNS 5. IP Address	**10 Marks**	**L2**	**CO1**
Or					
12.	a.	Explain the structure and components of forms in HTML. Discuss different form elements with examples and describe how they are used to capture user input.	**10 Marks**	**L2**	**CO1**
	b.	You are creating a fitness guide webpage for beginners. A. Display a list of exercises (Push-ups, Planks, Squats) — the order doesn't matter. B. Display the sequence of steps to perform a warm-up routine — the order must be followed. C. Display a list of fitness terms with their meanings (e.g., *Reps* – Repetitions, *Sets* – Group of repetitions). Identify the HTML concept used and explain each list type with syntax and examples.	**10 Marks**	**L2**	**CO1**

13.	**a.**	Compare fixed layout and liquid layout in detail. Explain their advantages, disadvantages, and suitable use cases with examples.	**10 Marks**	**L2**	**CO2**
	b.	Explain the float property in CSS in detail. Describe how elements behave when floated to the left or right. Provide examples demonstrating text wrapping around images.	**10 Marks**	**L2**	**CO2**
Or					
14.	**a.**	Explain the purpose of CSS selectors and illustrate how element, class, ID, and attribute selectors are used to style HTML elements.	**10 Marks**	**L2**	**CO2**
	b.	Demonstrate the homepage for a university website using HTML and CSS. The page should include a navigation menu and sections such as "About University" and "Latest News." Use a contextual selector to apply a unique font style and color to text inside the "About University" section and use pseudo-class selectors to change the appearance of navigation links when hovered over or clicked. Write the complete HTML and CSS code to implement the design.	**10 Marks**	**L2**	**CO2**

15.	**a.**	Illustrate arrays and super global arrays in PHP in detail. Discuss the types of arrays (indexed, associative, and multidimensional) with suitable examples. Describe the major super global arrays such as $_GET, $_POST, $GLOBALS, $_FILES, and $_SERVER, explaining their purpose and usage with examples.	**20 Marks**	**L3**	**CO3**
		Or			
16.	**a.**	Write PHP programs to read data from a text file, and to write and append data to text files. Use file handling functions such as fopen(), fread(), fwrite(), and fclose() to perform each operation, and demonstrate their usage with suitable examples.	**20 Marks**	**L3**	**CO3**

17.	**a.**	How can the different types of lists in HTML be used effectively? Provide detailed examples of each type and explain their structure, usage, and formatting in web design.	**7 Marks**	**L2**	**CO1**
	b.	Explain the concept of CSS multi-column layout. Describe the purpose of properties such as column-count, column-gap, and column-width with examples.	**8 Marks**	**L2**	**CO2**
	c.	Write a PHP program to demonstrate the use of associative arrays by storing student details. Display them using a for each loop.	**5 Marks**	**L3**	**CO3**
		Or			
18.	**a.**	Explain the differences between the following web development concepts: •<p> and • and •<b> and • <strike>and <del>	**7 Marks**	**L2**	**CO1**
	b.	Demonstrate a website for "Morning Brew" using HTML and a single external CSS file. Include a Home, Menu, and Contact page. Use CSS to style navigation links and buttons with hover and active effects, highlight the first letter of the paragraphs using ::first-letter, and ensure consistent styling across all pages. Write the complete HTML and CSS code.	**8 Marks**	**L2**	**CO2**
	c.	Write a PHP program to demonstrate Call by Reference.	**5 Marks**	**L3**	**CO3**