



# PRESIDENCY UNIVERSITY

BENGALURU

Roll No.

## End - Term Examinations – MAY /JUNE 2026

Date: 22-05-2026

Time: 01:00pm – 04:00pm

|                       |                                |                |
|-----------------------|--------------------------------|----------------|
| School: SOCSE         | Program: B.Tech                |                |
| Course Code : CSE2258 | Course Name : Web Technologies |                |
| Semester: IV/VI       | Max Marks: 100                 | Weightage: 50% |

| CO - Levels | C01 | C02 | C03 | C04 | C05 |
|-------------|-----|-----|-----|-----|-----|
| Marks       | 02  | 24  | 26  | 24  | 24  |

### 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  | Explain the role of the <p>, <pre>, and <hr> elements in HTML.                     | 2 Marks | L2 | C01 |
| 2  | Explain the difference between the action and method attributes in an HTML <form>. | 2 Marks | L2 | C02 |
| 3  | Name the list types in HTML?                                                       | 2 Marks | L1 | C02 |
| 4  | List any two differences between Block and Inline elements in CSS.                 | 2 Marks | L1 | C03 |
| 5  | Describe CSS pseudo classes.                                                       | 2 Marks | L2 | C03 |
| 6  | Explain CSS positioning elements.                                                  | 2 Marks | L2 | C03 |
| 7  | Describe JavaScript objects and methods.                                           | 2 Marks | L2 | C04 |
| 8  | Explain the difference between internal and external JavaScript.                   | 2 Marks | L2 | C04 |
| 9  | Describe file operations in PHP.                                                   | 2 Marks | L2 | C05 |
| 10 | Describe the purpose of \$_GET and \$_POST arrays with examples.                   | 2 Marks | L2 | C05 |

## Part B

### Answer the Questions

Total 80 Marks.

|     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |    |     |
|-----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|-----|
| 11. | a. | Apply different HTML form that includes various input types and show their functionality with examples.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 Marks | L3 | CO1 |
|     | b. | <p>The Student Welfare Department of Presidency University is organizing a Cultural Fest. As part of the web design team, you are required to develop a registration web page for the event.</p> <p>Design and implement an HTML web page that includes:</p> <ul style="list-style-type: none"><li>• A banner at the top displaying the cultural fest title along with an image and brief description.</li><li>• A registration form to collect participant details such as:<ul style="list-style-type: none"><li>• Participant Name</li><li>• Branch</li><li>• Section</li><li>• E-mail ID</li><li>• Mobile Number</li><li>• Gender (use appropriate input type)</li><li>• Events (Dance, Singing, Skit, Fashion Show, etc.)</li></ul></li></ul> | 10 Marks | L4 | CO1 |

Or

|     |    |                                                                                                                                                                                                                                             |          |    |     |
|-----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|-----|
| 12. | a. | Apply the concept of image mapping to design an interactive image with multiple clickable areas using appropriate HTML elements                                                                                                             | 10 Marks | L3 | CO1 |
|     | b. | Analyze the structure and features of an HTML table by implementing a web page that uses appropriate tags and attributes (headings, rows, columns, and cell spacing), and examine how these elements organize and present data effectively. | 10 Marks | L4 | CO1 |

|     |    |                                                                                                                                                                                                                                |          |    |     |
|-----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|-----|
| 13. | a. | You are tasked with creating a basic webpage layout with two columns: The left column should take up 70% of the width of the page. The right column should take up 30% of the width, Demonstrate this layout using CSS floats? | 10 Marks | L3 | CO3 |
|     | b. | Apply different CSS selectors, including pseudo-classes, pseudo-elements, descendant selectors, and child selectors, to construct an HTML page with suitable examples.                                                         | 10 Marks | L3 | CO3 |

Or

|     |    |                                                                                                                         |          |    |     |
|-----|----|-------------------------------------------------------------------------------------------------------------------------|----------|----|-----|
| 14. | a. | Apply different CSS positioning techniques to implement a webpage and illustrate their behavior with suitable examples. | 10 Marks | L3 | CO3 |
|-----|----|-------------------------------------------------------------------------------------------------------------------------|----------|----|-----|

|  |           |                                                                                        |                 |           |            |
|--|-----------|----------------------------------------------------------------------------------------|-----------------|-----------|------------|
|  | <b>b.</b> | Apply responsive design techniques using CSS media queries to create adaptive layouts. | <b>10 Marks</b> | <b>L3</b> | <b>C03</b> |
|--|-----------|----------------------------------------------------------------------------------------|-----------------|-----------|------------|

|            |           |                                                                                              |                 |           |            |
|------------|-----------|----------------------------------------------------------------------------------------------|-----------------|-----------|------------|
| <b>15.</b> | <b>a.</b> | Apply JavaScript event handling techniques to validate form fields in a webpage              | <b>10 Marks</b> | <b>L3</b> | <b>C04</b> |
|            | <b>b.</b> | Apply JavaScript loops to construct a web page that displays a sequence of numbers or items. | <b>10 Marks</b> | <b>L3</b> | <b>C04</b> |

**Or**

|            |           |                                                                                                                                     |                 |           |            |
|------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|------------|
| <b>16.</b> | <b>a.</b> | Apply JavaScript decision statements (if-else and switch) to develop a program that performs different actions based on user input. | <b>10 Marks</b> | <b>L3</b> | <b>C04</b> |
|            | <b>b.</b> | Apply JavaScript DOM manipulation techniques to construct an HTML page that changes content, styles, and attributes of elements.    | <b>10 Marks</b> | <b>L3</b> | <b>C04</b> |

|            |           |                                                                                                                                        |                 |           |            |
|------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|------------|
| <b>17.</b> | <b>a.</b> | Apply PHP file handling techniques to develop a program that reads the contents of a file and displays them.                           | <b>10 Marks</b> | <b>L3</b> | <b>C05</b> |
|            | <b>b.</b> | Apply PHP array concepts to demonstrate different types of arrays (indexed, associative, and multidimensional) with suitable examples. | <b>10 Marks</b> | <b>L3</b> | <b>C05</b> |

**Or**

|            |           |                                                                                                                                                                |                 |           |            |
|------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|------------|
| <b>18.</b> | <b>a.</b> | Apply suitable fopen() modes in a PHP program to handle file operations such as reading existing data and adding new content.                                  | <b>10 Marks</b> | <b>L3</b> | <b>C05</b> |
|            | <b>b.</b> | Apply PHP object-oriented programming concepts to construct a program using classes and objects that models a real-world entity such as a Student or Employee. | <b>10 Marks</b> | <b>L3</b> | <b>C05</b> |