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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – MAY 2025** |
| **Date:** 22-05-2025 **Time:** 09:30 am – 12:30 pm |

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| **School:** SOCSE | **Program**: B.Tech-CAI |
| **Course Code:** CSE2067 | **Course Name:** WEB TECHNOLOGIES |
| **Semester**: VI | **Max Marks**: 100 | **Weightage**: 50% |

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| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **26** | **30** | **44** |  |  |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

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| **Answer ALL the Questions. Each question carries 2marks. 10Q x 2M=20M** |
| **1.** | What is the difference between a block-level element and an inline element? | **2 Marks** | **L1** | **CO1** |
| **2.** | Define an image map. | **2 Marks** | **L1** | **CO1** |
| **3.** | What is the difference between action and method attributes in a <form>? | **2 Marks** | **L1** | **CO1** |
| **4.** | Why do we use a style sheet in HTML? | **2 Marks** | **L1** | **CO2** |
| **5.** | How can we hide an element in CSS? | **2 Marks** | **L1** | **CO2** |
| **6.** | Explain filter property in CSS? | **2 Marks** | **L1** | **CO2** |
| **7.** | What is the difference between GET and POST Method? | **2 Marks** | **L1** | **CO3** |
| **8.** | How to sort an array in PHP? List various array functions in PHP. | **2 Marks** | **L1** | **CO3** |
| **9.** | How do you reverse a string in PHP without using any built in functions? | **2 Marks** | **L1** | **CO3** |
| **10.** | What is the difference between == and === in PHP? | **2 Marks** | **L1** | **CO3** |

**Part B**

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

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| 11. | a. | How do you specify the source of content for an <iframe>. | 4 Marks | L1 | CO1 |
|  | **b.** | What is an HTML image map? Explain its structure and provide an example. | **6 Marks** | **L2** | **CO1** |
|  | **c.** | Create a Registration page for Placement Registration for Students using HTML by applying suitable styles using CSS. While entering Student details, all the fields need to validate using HTML attributes. The student details should be ID, Name, Mobile, Address, Branch (Apply menu), Semester, Resume, Date of Registration, CGPA. | **10 Marks** | **L4** | **CO1** |
| Or |
| 12. | **a.** | Describe the difference between the Internet and the World Wide Web. | **4 Marks** | **L1** | **CO1** |
|  | **b.** | Write the HTML code to create a complete webpage with the following features:1. A title in the browser tab.
2. A heading, a paragraph, and an image.
3. A hyperlink that opens in a new tab.
4. An unordered list of items.
 | **6Marks** | **L2** | **CO1** |
|  | **c.** | Write an HTML code to create a webpage using a nested <frameset> where: The parent <frameset> divides the screen vertically into two columns.The left column contains a frame for navigation.The right column contains a child <frameset> that divides the screen into two rows for a header and main content. | **10 Marks** | **L4** | **CO1** |

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| 13. | a. | Describe the role of XML Schema in defining the structure and constraints of XML documents. | 4 Marks | L2 | CO2 |
|  | **b.** | 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.How would you implement this layout using CSS floats? | **6 Marks** | **L3** | **CO2** |
|  | **c.** | Explain the following CSS term with examples:1. Pseudo-classes
2. Pseudo element
3. Descendant selector
4. child selector
 | **10 Marks** | **L4** | **CO2** |
| Or |
| 14. | **a.** | Discuss the syntax rules of XML documents, including elements, attributes, and namespaces. | **4 Marks** | **L2** | **CO2** |
|  | **b.** | Explain the different types of positioning elements in CSS with examples. | **6 Marks** | **L3** | **CO2** |
|  | **c.** | Describe the different methods of applying CSS to a webpage. Additionally, write the CSS code to:1. Set a hyperlink (<a>) to display red color before being visited and blue color after being visited.
2. Style a table such that odd-numbered rows appear white and even-numbered rows appear blue.
 | **10 Marks** | **L4** | **CO2** |

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| 15. | a. | What is the purpose of media queries in CSS. | 4 Marks | L2 | CO2 |
|  | **b.** | Write a PHP program to validate a user's login credentials using a pre-defined username and password. | **6 Marks** | **L3** | **CO3** |
|  | **c.** | Explain the different types of datatypes supported by PHP in detail with examples.  | **10 Marks** | **L4** | **CO3** |
| Or |
| 16. | **a.** | What is the difference between block-level and inline elements in normal flow. | **4 Marks** | **L2** | **CO2** |
|  | **b.** | Write a PHP program to read the contents of a file and display it. | **6 Marks** | **L3** | **CO3** |
|  | **c.** | Explain the three types of Array in PHP with examples | **10 Marks** | **L4** | **CO3** |

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| 17. | a. | What is the difference between $\_GET and $\_POST in PHP. | 4 Marks | L2 | CO3 |
|  | **b.** | Explain the principles of object-oriented design in PHP. | **6 Marks** | **L3** | **CO3** |
|  | **c.** | You're tasked with developing an e-commerce platform using PHP and MySQL. How would you design the database schema to store product information, handle user orders, and manage inventory levels efficiently. | **10 Marks** | **L4** | **CO3** |
| Or |
| 18. | **a.** | What is a superglobal array in PHP? Name any two superglobal arrays. | **4 Marks** | **L2** | **CO3** |
|  | **b.** | Describe how to read and write files in PHP. Provide code examples for both operations. | **6 Marks** | **L3** | **CO3** |
|  | **c.** | An organization needs an employee management system to track employee details, attendance, and performance. How would you use PHP and MySQL to develop a system that allows administrators to add, edit, and delete employee records. | **10 Marks** | **L4** | **CO3** |