

Code No: **R20A0515****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech I Semester Supplementary Examinations, June 2025****Scripting Languages****(CSE & CSE-AIML)**

| Roll No |  |  |  |  |  |  |  |  |  |
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**Time: 3 hours****Max. Marks: 70**

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

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**SECTION-I**

|   |          |                                                                                             | BCLL      | CO(s)       | Marks       |
|---|----------|---------------------------------------------------------------------------------------------|-----------|-------------|-------------|
| 1 | <i>A</i> | Explain the difference between client-side and server-side scripting with examples.         | <b>L2</b> | <b>CO-I</b> | <b>[7M]</b> |
|   | <i>B</i> | Analyze the advantages and disadvantages of using a scripting language for web development. | <b>L4</b> | <b>CO-I</b> | <b>[7M]</b> |

OR

|   |          |                                                                                                              |           |             |             |
|---|----------|--------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|
| 2 | <i>A</i> | Create a JavaScript function that checks if a user is eligible to vote (age >= 18) using a ternary operator. | <b>L3</b> | <b>CO-I</b> | <b>[7M]</b> |
|   | <i>B</i> | How does the 'this' keyword behave inside a method of an object in JavaScript? Provide an example.           | <b>L3</b> | <b>CO-I</b> | <b>[7M]</b> |

**SECTION-II**

|   |          |                                                                                                                                                                  |           |              |             |
|---|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-------------|
| 3 | <i>A</i> | Create a reactive form using JavaScript where, as the user types into an input field, the typed text is displayed in real-time in a <p> element below the input. | <b>L3</b> | <b>CO-II</b> | <b>[7M]</b> |
|   | <i>B</i> | Describe the difference between <i>onclick</i> method and <i>addEventListener</i> method for handling events.                                                    | <b>L2</b> | <b>CO-II</b> | <b>[7M]</b> |

OR

|   |          |                                                                                                                                     |           |              |             |
|---|----------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-------------|
| 4 | <i>A</i> | Write a JavaScript function that changes the background color of a button when it is clicked.                                       | <b>L2</b> | <b>CO-II</b> | <b>[7M]</b> |
|   | <i>B</i> | Compare the behaviour of the <i>onfocus</i> and <i>onblur</i> events in the browser window. How do they interact with user actions? | <b>L4</b> | <b>CO-II</b> | <b>[7M]</b> |

**SECTION-III**

|   |          |                                                                                           |           |               |             |
|---|----------|-------------------------------------------------------------------------------------------|-----------|---------------|-------------|
| 5 | <i>A</i> | Explain the key features of Perl which make it a popular scripting language in detail.    | <b>L2</b> | <b>CO-III</b> | <b>[7M]</b> |
|   | <i>B</i> | Describe a pattern matching and regular expression operator which is implemented in PERL. | <b>L3</b> | <b>CO-III</b> | <b>[7M]</b> |

OR

|   |          |                                                                                                                           |           |               |             |
|---|----------|---------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-------------|
| 6 | <i>A</i> | Write a Perl script that uses the <i>split</i> function to separate a comma-separated string into an array of substrings. | <b>L3</b> | <b>CO-III</b> | <b>[7M]</b> |
|   | <i>B</i> | Implement a Perl function that extracts all the phone numbers from a text input using regular expressions.                | <b>L3</b> | <b>CO-III</b> | <b>[7M]</b> |

**SECTION-IV**

|   |          |                                                                                                   |           |              |             |
|---|----------|---------------------------------------------------------------------------------------------------|-----------|--------------|-------------|
| 7 | <i>A</i> | Explain the difference between indexed arrays and associative arrays, providing examples of each. | <b>L2</b> | <b>CO-IV</b> | <b>[7M]</b> |
|---|----------|---------------------------------------------------------------------------------------------------|-----------|--------------|-------------|

**B** Write a PHP script that connects to a MySQL database and retrieves data from a specific table, displaying it in an HTML table format. **L4 CO-IV [7M]**

OR

**8 A** List any five commonly used string functions in PHP and provide a brief description of each with suitable example. **L2 CO-IV [7M]**

**B** Explain the difference between GET and POST methods in PHP form handling. In what situations would you use one over the other? **L2 CO-IV [7M]**

#### **SECTION-V**

**9 A** Describe how nested conditional statements work in Ruby. Provide an example to illustrate your explanation. **L2 CO-V [7M]**

**B** Write a Ruby script that uses a block to filter an array, returning only the elements that satisfy a given condition. **L3 CO-V [7M]**

OR

**10 A** Analyze the differences between *while* and *until* loops in Ruby. In what scenarios might one be preferred over the other? **L4 CO-V [7M]**

**B** Create a Ruby script that counts the frequency of each word in a given string and stores the results in a hash. **L3 CO-V [7M]**

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