

Code No: R22A0513

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**III B.Tech II Semester Regular Examinations, April 2025****Full Stack Development****(IT, CSIT, CSE-AIML & B.Tech-AIML)**

<b>Roll No</b>									
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**Time: 3 hours****Max. Marks: 60****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 10 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

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**PART-A ( 10 Marks)****(Write all answers of this part at one place)**

			<b>BCLL</b>	<b>CO(s)</b>	<b>Marks</b>
1	A	List any two types of CSS selectors.	L1	CO-I	[1M]
	B	Define <form> element in HTML.	L1	CO-I	[1M]
	C	Write syntax of a JavaScript function.	L2	CO-II	[1M]
	D	What is jQuery used for?	L2	CO-II	[1M]
	E	What is data binding in Angular?	L2	CO-III	[1M]
	F	List any two features of React.	L1	CO-III	[1M]
	G	What is a listener in Node.js?	L2	CO-IV	[1M]
	H	State the purpose of setTimeout() in Node.js.	L2	CO-IV	[1M]
	I	List two advantages of MongoDB.	L2	CO-V	[1M]
	J	Define schema in Mongoose.	L1	CO-V	[1M]

**PART-B ( 50 Marks)****SECTION-I**

- |   |   |   |    |      |      |
|---|---|---|----|------|------|
| 2 | A | Explain how background and font properties are used in CSS with examples. | L1 | CO-I | [5M] |
|   | B | Compare inline, internal and external CSS with examples.                  | L1 | CO-I | [5M] |

OR

- |   |   |   |    |      |      |
|---|---|---|----|------|------|
| 3 | A | Describe the structure of an HTML form with input elements. | L2 | CO-I | [5M] |
|   | B | Describe various Git commands used for version control      | L3 | CO-I | [5M] |

**SECTION-II**

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|---|---|---|----|-------|------|
| 4 | A | Illustrate form validation using JavaScript with a simple form. | L3 | CO-II | [5M] |
|   | B | Explain the importance of JSON in web development.              | L1 | CO-II | [5M] |
- OR
- |   |   |  |    |       |      |
|---|---|--|----|-------|------|
| 5 | A | Differentiate between == and === operators in JavaScript.              | L4 | CO-II | [5M] |
|   | B | Write jQuery code to change the background color of a button on click. | L3 | CO-II | [5M] |

**SECTION-III**

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|---|---|---|----|--------|------|
| 6 | A | Explain different types of data binding in Angular. | L2 | CO-III | [5M] |
|   | B | Describe lifecycle hooks in react with an example.  | L2 | CO-III | [5M] |

OR

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|---|---|--|----|--------|------|
| 7 | A | Build a React component that displays student details using props. | L3 | CO-III | [5M] |
|   | B | Explain the concept of Virtual DOM in React.                       | L2 | CO-III | [5M] |

**SECTION-IV**

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|---|---|---|----|-------|------|
| 8 | A | Write a Node.js program to read and write a file.                   | L3 | CO-IV | [5M] |
|   | B | Explain the use of events and listeners in Node.js with an example. | L2 | CO-IV | [5M] |

OR

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|---|---|--|----|-------|------|
| 9 | A | Describe how asynchronous callbacks work in Node.js                  | L2 | CO-IV | [5M] |
|   | B | Demonstrate the use of setInterval() and clearInterval() in Node.js. | L3 | CO-IV | [5M] |

**SECTION-V**

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|----|---|--|----|------|------|
| 10 | A | Write Node.js code to insert a document into MongoDB using Mongoose. | L3 | CO-V | [5M] |
|    | B | Differentiate between SQL and NoSQL databases.                       | L4 | CO-V | [5M] |

OR

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|----|---|--|----|------|------|
| 11 | A | Explain schema validation using Mongoose.            | L2 | CO-V | [5M] |
|    | B | Illustrate CRUD operations in MongoDB using Node.js. | L3 | CO-V | [5M] |

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