**Sub Code: M23215802 SET-2 D23**

M. Tech I Semester Regular Examinations, March - 2024

**MEAN Stack Technologies**

**(Computer Science and Engineering)**

**Time: 3 hours Max Marks: 75M**

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**Note:**1. *Answer any* ***FIVE*** *Questions One Question from each unit*

2. *All Questions carry equal marks*

3. *Parts of a question should be answered at the same place.*

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| **UNIT - I** | | | |
| **1.** | **a).** | 1. Write about the HTML5 Global Attributes? 2. Explain XML Schemas? | **8 M** |
|  | **b).** | Explain in detailed about Form elements: date picker, drop down lists, range? | **7 M** |
| **(OR)** | | | |
| **2.** | **a).** | Explain in detailed about Form elements: Text field, password, radio button, Check box? | **8 M** |
|  | **b).** | Explain in detailed about table tag in HTML? | **7 M** |
| **UNIT - II** | | | |
| **3.** | **a).** | 1. Explain arrow function in JavaScript? 2. Explain event handling in JavaScript? | **8 M** |
|  | **b).** | What is angular Built in Pipes? | **7 M** |
| **(OR)** | | | |
| **4.** | **a).** | Demonstrate the Primitives Operations and Expressions in JavaScript? | **8 M** |
|  | **b).** | Explain Single Page Application development using Angular JS? | **7 M** |
| **UNIT - III** | | | |
| **5.** | **a).** | a) Illustrate the fie operations in node-js?  b) Illustrate the features of node-js? | **8 M** |
|  | **b).** | Explain how to Connect Mongo DB with Mongoose? | **7 M** |
| **(OR)** | | | |
| **6.** | **a).** | Explain the task of Process Managers in node-js? | **8 M** |
|  | **b).** | What are the Route and Query Parameters in express.js and in detail write about CRUD Operations | **7 M** |
| **UNIT - IV** | | | |
| **7.** | **a).** | What are some strategies for staying updated with the latest changes and best practices in React.js? | **8 M** |
|  | **b).** | How does React maintain backward compatibility while introducing new features? | **7 M** |
| **(OR)** | | | |
| **8.** | **a).** | What is meant by "Pure React," and why is it important to understand its principles? | **8 M** |
|  | **b).** | What are React elements, and how do they differ from DOM elements? | **7 M** |
| **UNIT - V** | | | |
| **9.** | **a).** | What are the advantages and disadvantages of using Mongo DB in a development project? | **8 M** |
|  | **b).** | Discuss Mongo DB's support for ACID transactions and its implications for data integrity? | **7 M** |
| **(OR)** | | | |
| **10.** | **a).** | Demonstrate how to perform CRUD operations (Create, Read, Update, Delete) in Mongo DB using the Mongo DB shell? | **8 M** |
|  | **b).** | Explain the differences between embedding documents and referencing documents in Mongo DB? | **7 M** |

**\*\*\*End of Question Paper\*\*\***