

Code No: **R20A0516****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech I Semester Supplementary Examinations, June/July 2024****Full Stack Development****(B.Tech-AIDS)**

<b>Roll No</b>									
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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**

- 1    *A*    Describe the basic steps involved in the request-response cycle in web development.    [7M]  
       *B*    Discuss the concept of server-side rendering (SSR) and client-side rendering (CSR).    [7M]

OR

- 2    *A*    Describe the difference between inline, internal, and external CSS.    [7M]  
       *B*    What is a Git repository, and how is it different from a working directory?    [7M]

**SECTION-II**

- 3    *A*    Discuss the role of JavaScript in enhancing user interactivity on websites.    [7M]  
       *B*    Explain the concept of memory management in JavaScript.    [7M]

OR

- 4    *A*    Discuss the significance of chaining in jQuery and provide an example.    [7M]  
       *B*    What is JSON, and why is it commonly used for data exchange?    [7M]

**SECTION-III**

- 5    *A*    What is React Router, and how does it enable navigation in a React application?    [7M]  
       *B*    Describe the key components of a Redux architecture    [7M]

OR

- 6    *A*    Describe the role of forms in web applications and how React handles form data.    [7M]  
       *B*    How do you connect a React component to the Redux store?    [7M]

**SECTION-IV**

- 7    *A*    Explain the responsibilities of the Model, View, and Controller in the MVC pattern.    [7M]  
       *B*    How do you create a RESTful API using the Spring Framework?    [7M]

OR

- 8    *A*    What is content negotiation in the context of RESTful APIs?    [7M]  
       *B*    Describe the Maven build lifecycle phases.    [7M]

**SECTION-V**

- 9    *A*    Discuss the different normal forms in database normalization.    [7M]  
       *B*    What is Spring JDBC, and how does it simplify data access in Java applications?    [7M]

OR

- 10    *A*    Discuss the advantages of using Spring JDBC over traditional JDBC for data persistence.    [7M]  
       *B*    Differentiate between DDL and DML in the context of SQL.    [7M]

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