Code No: R20A0516

## MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

## III B.Tech II Semester Regular/Supplementary Examinations, June 2024 Full Stack Development

(CSE, CSE-AIML & B.Tech-AIML)

Roll No					

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	A B	Define HTML and explain its role in web development.  Define Git and GitHub. Explain the difference between them.  OR	L1 L1,L5	CO-I	[7M] [7M]
2	A	Explain the process of hosting a website on a web server. Describe the steps involved in configuring a domain name, setting up DNS records, and uploading website files to a web server.	L5,L6	CO-I	[ <b>7M</b> ]
	В	Explain the difference between inline, internal, and external CSS stylesheets. Discuss the advantages and disadvantages of each approach, and provide examples of when each approach might be appropriate.	L5,L6	CO-I	[7M]
3	A	Explain the basic concepts of OOP in JavaScript and provide examples of how to create objects, classes, and inheritance in JavaScript.	L5	CO-II	[ <b>7M</b> ]
	В	Discuss the structure of JSON data with an example.  OR	<b>L6</b>	CO-II	[ <b>7M</b> ]
4	A	Discuss various UI components provided by jQuery UI library, Provide examples of how to use these components to enhance the user interface of a web application.	L2	CO-II	[7M]
	В	Discuss the concept of AJAX callbacks and how they are used to handle asynchronous responses from the server. Provide examples of handling AJAX responses using callback functions.	L6	CO-II	[7M]
5	A	Describe the role of React Router in building Single Page Applications (SPAs). How does React Router handle routing in a React application?	L2	CO-III	[7M]
	В	Compare and contrast Redux actions and reducers. How do actions and reducers work together to manage state changes in a Redux application?	L2	CO-III	[7M]
6	A	OR Explain the concept of Flow architecture and its role in	L5	CO-III	[ <b>7M</b> ]
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		managing data flow in React.js applications.			
	В	Explain the concept of client-server communication in React.js	L5	CO-III	[ <b>7M</b> ]
		applications. Describe common methods used for making			
		HTTP requests and handling responses in React.			
		SECTION-IV			
7	Α	Describe the MVC architecture pattern used in web	<b>L6</b>	CO-IV	[ <b>7M</b> ]
		development. Explain the responsibilities of each component			
		and how they interact with each other. Provide a diagram to			
		illustrate the MVC architecture.			
	В	Demonstrate the implementation of a simple Java web	L2	CO-IV	[ <b>7M</b> ]
		application using the MVC architecture pattern and Spring			
		Framework. Provide a step-by-step explanation of how each			
		component is implemented and integrated within the			
		application. OR			
8	A	Explain the basic concepts of Java programming. Provide	L5	CO-IV	[7]
0	А	examples to illustrate each concept.	LS	CO-1V	[7M]
	В	Describe the key features of the Spring Framework and how it	<b>L6</b>	CO-IV	[7M]
	Ъ	facilitates building web applications in Java. Discuss the	Lu	CO-11	[/1/1]
		advantages of using Spring for web development.			
		SECTION-V			
9	A	Explain the concept of relational schemas and normalization.	L3	CO-V	[ <b>7M</b> ]
		How does normalization help in designing efficient databases?			
		Provide examples to illustrate your answer.			
	В	Compare and contrast the primary key and foreign key	L3	CO-V	[7M]
		constraints in SQL databases. Discuss their roles in			
		maintaining data integrity and enforcing relationships between			
		tables. Provide examples to illustrate their usage.			
		OR			
10	Α	Explain the Agile development principles and their	L3	CO-V	[ <b>7M</b> ]
		significance in software development projects.			
	В	Describe the concept of deploying applications in the cloud.	L3	CO-V	[ <b>7M</b> ]
		Provide examples of popular cloud platforms and deployment			
		strategies.			
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