Enrollment No./Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER - II EXAMINATION - SUMMER 2025

Subject Code: MC02094041   **Date: 05-06-2025**

Subject Name: Full Stack Development

Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**

Instructions

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

4. Use of simple calculators and non-programmable scientific calculators are permitted.

			Marks
Q.1	**(a)**	Describe the structure of an HTML document with an example.	**07**
	(b)	Write MongoDB shell commands for DML statements.	**07**
Q.2	**(a)**	What is Web Server? Explain key features.	**07**
	(b)	What is composition in React? Give an example.	**07**
		OR	
	(b)	What is EC2 in Cloud?	**07**
Q.3	**(a)**	What is CSS? Explain different types of CSS with example.	**07**
	(b)	Mention differences between SQL and NoSQL databases.	**07**
		OR	
	(a)	Explain useState with example.	**07**
	(b)	Explain Express JS in brief.	**07**
Q.4	**(a)**	How does ReactDOM render elements into the DOM?	**07**
	(b)	What is scaling in cloud? Explain types.	**07**
		OR	
	(a)	What is a Cookie? How is it handled in Node.js?	**07**
	(b)	What is component? Explain types with example.	**07**
Q.5	**(a)**	What is Kubernetes? Explain its architecture.	**07**
	(b)	Explain different events of JavaScript.	**07**
		OR	
	(a)	Differentiate between GET and POST methods in AJAX.	**07**
	(b)	What is a Docker container? Why use docker?	**07**

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