Enrollment No./Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER - III EXAMINATION - WINTER 2025

Subject Code: MC03094021   **Date: 15-11-2025**

Subject Name: Software Engineering

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)	Explain the Waterfall model.	07
	(b)	Explain requirement engineering process.	07
Q.2	(a)	Discuss unit testing.	07
	(b)	How can you motivate people involved in project? Discuss key points.	07
		OR	
	(b)	Explain alpha and beta testing.	07
Q.3	(a)	Discuss stories and scenarios with a suitable example.	07
	(b)	Draw and explain sequence diagram for microwave oven process.	07
		OR	
	(a)	Discuss architectural design decisions.	07
	(b)	Discuss software standards.	07
Q.4	(a)	Write short note on Agile methods.	07
	(b)	Discuss availability and reliability.	07
		OR	
	(a)	Explain design patterns.	07
	(b)	Explain software quality.	07
Q.5	(a)	Write short note on Risk identification.	07
	(b)	Explain Pipe and filter architecture.	07
		OR	
	(a)	Explain Class diagrams with suitable example. Discuss all the components of it.	07
	(b)	Explain prototyping model.	07

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