

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V EXAMINATION – WINTER 2025****Subject Code:3150711****Date:19-11-2025****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. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) List the management myths in software development.	03
	(b) Discuss why Software Engineering is a Layered Technology?	04
	(c) What is SDLC? Why it is important? Explain the main phases of SDLC.	07
Q.2	(a) What are the advantages and disadvantages of Spiral model?	03
	(b) What are 4 P's in software project planning?	04
	(c) What is Agility? List principles of Agile Manifesto	07
OR		
	(c) Discuss SCRUM as agile software development process model.	07
Q.3	(a) What is the importance of user interface?	03
	(b) Give difference between procedural Design and Object Oriented Design	04
	(c) What are the elements of a behavioral model? Prepare use case diagram and sequence diagrams for Hotel management system.	07
OR		
Q.3	(a) What is Six Sigma standard? Why we use it?	03
	(b) Explain FTR.	04
	(c) Write SRS For Healthcare management system.	07
Q.4	(a) What is COCOMO model? Why it is used?	03
	(b) Explain RMMM plan.	04
	(c) Explain Functional and Non Functional Requirement for College Management System.	07
OR		
Q.4	(a) List various types of software testing metrics?	03
	(b) Explain project scheduling process in detail.	04
	(c) Define module coupling and cohesion. Explain different types of coupling and cohesion.	07
Q.5	(a) Differentiate between verification and validation.	03
	(b) What is the need of software configuration review?	04
	(c) How many C's are there in DevOps life Cycle? Explain all C's.	07
OR		
Q.5	(a) Write short note on Version Control.	03
	(b) Discuss the SQA activities.	04
	(c) What is reverse engineering and re-engineering? Explain reverse engineering and re-engineering with an example.	07
