

Enrolment No./Seat No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V EXAMINATION – WINTER 2025

Subject Code:3155201

Date:27-11-2025

Subject Name:Agile Software Development & Devops

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) What is software process model?	03
(b) Describe the limitations of the prototyping model.	04
(c) Explain the component-based development process model.	07
Q.2 (a) Explain the traditional model vs. agile model.	03
(b) Describe the agile manifesto and principles.	04
(c) What are the principles of agile testing?	07
OR	
(c) What are the advantages and disadvantage of agile process?	07
Q.3 (a) Explain the extreme programming.	03
(b) Explain the agile information systems.	04
(c) Describe the challenges of migrating to agile methodologies.	07
OR	
Q.3 (a) Explain the adaptive software development.	03
(b) Explain the agile decision making.	04
(c) Describe the agile knowledge sharing.	07
Q.4 (a) How to manage unstable requirements.	03
(b) Describe the concurrency in agile requirements.	04
(c) Explain the financial and production metrics in FDD.	07
OR	
Q.4 (a) What is the impact of agile processes in requirement engineering?	03
(b) Explain the agile requirements prioritization.	04
(c) Explain agile approach to quality assurance.	07
Q.5 (a) What are the qualities of a good agile tester?	03
(b) What is a sprint in agile?	04
(c) Explain the challenges in selection of right devops tools and in devops implementation.	07
OR	
Q.5 (a) What is refactoring?	03
(b) What are the differences between agile and scrum?	04
(c) Explain the devops principles and practices.	07