

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code: 3164202****Date: 06-07-2023****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) Explain Software engineering as a Layered technology.	03
	(b) Compare Traditional Model and Agile Model.	04
	(c) Write Agile Manifesto and explain Agile Principles.	07
Q.2	(a) Explain concept of Lean production.	03
	(b) Explain the merits and demerits of SCRUM.	04
	(c) Describe in detail: Kanban Process framework.	07
	OR	
	(c) Describe in detail: Extreme Programming.	07
Q.3	(a) Explain ways of Knowledge Sharing In Agile Software Development Organizations.	03
	(b) Explain Challenges of Migrating to Agile Methodologies.	04
	(c) Which are impacts of Agile Processes on Requirements Engineering.	07
	OR	
Q.3	(a) What is Product Backlog?	03
	(b) How agile is helping to manage changing requirements?	04
	(c) Enlist and explain Techniques for Eliciting Requirements.	07
Q.4	(a) What is Functional testing? Explain.	03
	(b) Write qualities or skills needed for Agile Tester.	04
	(c) What is Agile Metrics? Explain any 5 Metrics.	07
	OR	
Q.4	(a) What is User-Stories? Explain.	03
	(b) Draw and explain Test Automation Pyramid.	04
	(c) Explain Types of Testing in Agile in Detail.	07
Q.5	(a) What is DevOps? Explain.	03
	(b) What are the key benefits of DevOps?	04
	(c) Explain 7-C's of DevOps Lifecycle.	07
	OR	
Q.5	(a) List out five open source tools used in DevOps.	03
	(b) Enlist some of the Continuous Testing Tools and what are the benefits of continuous testing?	04
	(c) Explain DevOps Principles.	07
