

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2024

Subject Code:3155201

Date:09-12-2024

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 a Software Layered Technology.	03
	(b) Discuss RAD model with diagram.	04
	(c) Differentiate Traditional software Model and Agile Model.	07
Q.2	(a) Discuss Agile Manifesto and agile principles.	03
	(b) How to perform progress tracking in the Agile process.	04
	(c) Explain SCRUM in detail.	07
	OR	
	(c) Explain Extreme programming with diagrams.	07
Q.3	(a) What are Agile Drivers?	03
	(b) Explain velocity in the Agile process.	04
	(c) Discuss challenges of Migrating to Agile Methodologies.	07
	OR	
Q.3	(a) Describe Distribution in Agile model.	03
	(b) Discuss about UX design.	04
	(c) Explain Agile Knowledge Sharing.	07
Q.4	(a) What are agile metrics and user stories ?	03
	(b) Compare between product backlog and sprint backlog.	04
	(c) Explain Agile Approach to Quality Assurance.	07
	OR	
Q.4	(a) What is UI testing ?	03
	(b) Discuss Production Metrics in FDD.	04
	(c) Explain Agile Requirements Modeling and Generation.	07
Q.5	(a) What is agile testing ? List Out testing types.	03
	(b) Discuss Devops Principles.	04
	(c) Explain 7-C's of DevOps lifecycle for business agility.	07
	OR	
Q.5	(a) List out challenges in DevOps Implementation.	03
	(b) What is DevOps? Explain the importance and benefits of DevOps	04
	(c) Describe Challenges in selection of right DevOps tools with examples	07
