

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024

Subject Code:3164202

Date:17-05-2024

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) Discuss merits and demerits of Waterfall model.	03
	(b) Explain Software Engineering: A Layered Technology	04
	(c) Explain one of the evolutionary software process model with its pros and cons.	07
Q.2	(a) Differentiate Traditional Model vs Agile Model.	03
	(b) Explain Project forecasting in detail.	04
	(c) Explain Extreme Programming (XP) in detail.	07
	OR	
	(c) Explain Scrum with its advantages and disadvantages.	07
Q.3	(a) Describe Agile Information Systems.	03
	(b) Differentiate Product Backlog vs Spring Backlog.	04
	(c) Explain Requirement Elicitation in detail.	07
	OR	
Q.3	(a) What Are the Difficulties in Using Agile Methodologies for Migration?	03
	(b) Describe Agile Knowledge sharing in detail.	04
	(c) Explain Impact of Agile Processes in Requirement Engineering in detail.	07
Q.4	(a) List out Principles of Testing.	03
	(b) Describe User Stories.	04
	(c) Explain Kanban Process framework.	07
	OR	
Q.4	(a) Discuss the nature of UX Design.	03
	(b) What is DevOps? Explain Importance and benefits of the DevOps.	04
	(c) Explain DevOps Principles.	07
Q.5	(a) What is Security Testing?	03
	(b) Describe the different challenges with DevOps implementation.	04
	(c) List and Explain Types of Testing in Agile in detail.	07
	OR	
Q.5	(a) What are the difference between Agile and DevOps.	03
	(b) Explain Test Automation Pyramid.	04
	(c) Discuss 7 C's of DevOps Lifecycle for Business Agility.	07
