

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – SUMMER 2025

Subject Code:3171610

Date:16-05-2025

Subject Name:Agile Development and UI/UX design

Time:02:30 PM TO 05:00 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) Define “Extreme Programming”.	03
	(b) What are different types of Agile Methodology? Brief about any one.	04
	(c) Explain the important Agile Principles for agile development.	07
Q.2	(a) What is “Refactoring”? How it differs from redesign?	03
	(b) Discuss Agile Life cycle Processes.	04
	(c) Explain SRP: Single-responsibility Principal with suitable example.	07
	OR	
	(c) Explain Liskov Substitution Principle (LSP) with suitable example.	07
Q.3	(a) What is spike, splitting and velocity?	03
	(b) Discuss the factors that influence Rigor in project development.	04
	(c) Explain the Funnel Model of Agile UX in detail.	07
	OR	
Q.3	(a) What is a physical mockup? How does it help in design?	03
	(b) Differentiate between extreme programming and scrum.	04
	(c) Explain Agile Testing methods.	07
Q.4	(a) What is meant by UX?	03
	(b) Explain the importance of “Usefulness” and “Emotional impact” in UX Design.	04
	(c) Discuss the following concepts with respect to Generative design: (i) ideation (ii) critiquing	07
	OR	
Q.4	(a) What is rapid prototyping and how does it benefit the production design cycle?	03
	(b) Explain Empirical UX evaluation methods in brief.	04
	(c) Explain Why a UX Design team should have people with diverse skill and backgrounds. Briefly discuss a real-world example where such a team can have a positive impact on the design of a product.	07
Q.5	(a) What is “acceptance testing”?	03
	(b) Discuss Prototype candidate design.	04
	(c) Differentiate between Bottom-up versus Top-down Design.	07

OR

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| Q.5 | (a) What are the crucial Agile Matrices? | 03 |
| | (b) How do Agile UX and Agile Software Engineering work together? | 04 |
| | (c) Write note on: Interface Segregation Principle (ISP) | 07 |
