

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER- VII EXAMINATION – SUMMER 2026****Subject Code:3171610****Date:29-05-2026****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 Agile development.	03
	(b) How can we find out if the software is correctly designed? Explain in detail.	04
	(c) Explain Agile Design Principle in Detail.	07
Q.2	(a) Discuss the Agile testing and agile planning in detail with help of diagram.	03
	(b) Explain the following terms with respect to Extreme Programming: (i) user stories (ii) pair programming	04
	(c) Explain “SRP: The Single-Responsibility Principle” with suitable example.	07
	OR	
	(c) Explain the Liskov Substitution Principle in detail.	07
Q.3	(a) What is “Scope” of a project?	03
	(b) Differentiate between Agile and Scrum.	04
	(c) Using a neat diagram, discuss the funnel model of Agile User Experience and its key features.	07
	OR	
Q.3	(a) What are the crucial Agile Matrices?	03
	(b) What is meant by “Rigor” of a project? Briefly discuss the factors that influence Rigor during agile project development.	04
	(c) Write a detailed note on Agile Testing methods.	07
Q.4	(a) Define a “sprint” in agile development.	03
	(b) Explain the significance of “Usability” and “Emotional Impact” in UX design.	04
	(c) What are the pros and cons of Agile Methodology?	07
	OR	
Q.4	(a) What is Refactoring?	03
	(b) Discuss the significance of Prototyping as a UX lifecycle activity. What is a “clickthrough prototype”?	04
	(c) Discuss and compare the Top-Down and Bottom-up approaches for design using suitable examples.	07
Q.5	(a) What are “quantitative and qualitative” UX evaluations?	03
	(b) What do you mean by UX? State the difference between UI and UX.	04
	(c) Discuss about data collection methods of analytic UX evaluation with suitable example.	07
	OR	
Q.5	(a) Compare “Formative Evaluation” versus “Summative Evaluation”.	03
	(b) Discuss the following concepts with respect to Generative design: (i) ideation (ii) critiquing	04
	(c) Explain Empirical UX Evaluation with suitable example and also discuss the goals and metrics of Empirical UX evaluation	07
