Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2021

Subject Code:3171610 Date:15/12/2021

Subject Name: Agile Development and UI/UX design

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)	Define "Agile development".	03
_	(b)	What is meant by "UX"? Explain the importance of "Usefulness" and "Emotional impact" in UX design.	04
	(c)	Discuss the important Agile Principles that guide agile development.	07
Q.2	(a)	Explain the following terms with respect to Extreme Programming:	03
	(b)	(i) user stories (ii) pair programming Compare Agile Model with Waterfall Model.	04
	(c)	With the help of a neat diagram, discuss the Funnel Model of Agile UX and discuss its main features.	07
	(a)	OR	07
	(c)	Write a detailed note on Agile Testing methods.	07
Q.3	(a) (b)	What is "Refactoring"? What is meant by "Scope" and "Rigor" of a project? Briefly discuss the factors that influence Rigor during agile project development.	03 04
	(c)	Write a detailed note on "SRP: The Single-Responsibility Principle".	07
		OR	
Q.3	(a)	Define a "sprint" in agile development.	03
	(b)	What are the problems that develop in software systems over time? How does agile design overcome these problems?	04
0.4	(c)	Write a detailed note on "OCP: The Open-Closed Principle".	07
Q.4 (a) (b)	(a) (b)	What is "acceptance testing"? Discuss the significance of Prototyping as a UX lifecycle activity. What is a "clickthrough prototype"?	03 04
	(c)	Discuss and compare the Top-Down and Bottom-up approaches for design using suitable examples.	07
ΩA	(a)	OR What is a physical mackup? How does it halp in decign?	03
Q.4	(a) (b)	What is a physical mockup? How does it help in design? Discuss the following concepts with respect to Generative design: (i) ideation (ii) critiquing	04
	(c)	Explain why a UX Design team should have people with diverse skills 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 are "quantitative" and "qualitative" UX evaluation data?				
	(b)	How do Agile UX and Agile Software Engineering work together?	04	
(c) What is Empirical UX evaluation? With the help of a suitable example discuss the setting of Goals and Metrics for Empirical				
		UX Evaluation.		
		OR		
Q.5	(a)	What is a "benchmark" task?	03	
	(b)	Compare "Formative Evaluation" versus "Summative Evaluation".	04	
	(c)	Discuss the following data collection methods for Analytic UX evaluation: (i) Design walk-through (ii) Expert UX Inspection.	07	
