GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VII (NEW) EXAMINATION – WINTER 2022

Subject Code:3171610   **Date:10-01-2023**

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)**	What is Agile model? What are the objectives of Agile developments?	**03**
	(b)	Compare Agile model with traditional waterfall model.	**04**
	(c)	Discuss SCRUM Agile Development process in detail.	**07**
Q.2	**(a)**	What is spike, splitting and velocity?	**03**
	(b)	Compare Refactoring with Redesign.	**04**
	(c)	Discuss Agile Testing Principles.	**07**
		OR	
	(c)	Explain various Agile Testing Methods.	**07**
Q.3	**(a)**	What is UX? What is the importance of prototyping as a UX lifecycle activity?	**03**
	(b)	Define Rigor and Scope in Agile UX Design. What are 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 are the different types of prototypes that can be built for UX design?	**03**
	(b)	Explain the significance of "Usability" and "Emotional Impact" in UX design.	**04**
	(c)	Discuss Top down and Bottom-up design approach with suitable example.	**07**
Q.4	**(a)**	What are the motivations behind the usage of SOLID principles in Agile design?	**03**
	(b)	Explain code refactoring with suitable example.	**04**
	(c)	Write note on: Liskov Substitution Principle (LSP)	**07**
		OR	
Q.4	**(a)**	What is Summative Usability Testing?	**03**
	(b)	Discuss Symptoms of Code smells.	**04**
	(c)	Write note on: Interface Segregation Principle (ISP).	**07**
Q.5	**(a)**	What is UX measure and target? List out some common UX measure.	**03**
	(b)	Explain different types of Evaluation data.	**04**
	(c)	Discuss list of heuristics for User interface design given by Jakob Nielsen.	**07**
		OR	
Q.5	**(a)**	How can you collect data for user performance measurement?	**03**
	(b)	Explain some Analytic UX Evaluation Methods.	**04**
	(c)	Discuss various Empirical UX Evaluation Methods in detail.	**07**