Name: **Enrolment No:**	

UPES

End Semester Examination, May 2024

Course: Agile Practices **Semester: 06**

Program: BTech_CSE (all specialization) **Time : 03 hrs.**

Course Code:CSDV3002P **Max. Marks: 100**

Instructions: 1. Attempt all questions.

2. Use diagrams and examples, where applicable, to illustrate your answers.

SECTION A

(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Explain the key difference between Agile and traditional waterfall project management methodologies	**4**	**CO1**
Q 2	Describe two benefits of automated testing in an Agile environment.	**4**	**CO2**
Q 3	Define Continuous Integration and its importance in Agile practices.	**4**	**CO2**
Q 4	List and briefly explain the four values of the Agile Manifesto.	**4**	**CO1**
Q 5	Compare Scrum and Kanban in terms of their approach to task management and workflow.	**4**	**CO3**
	SECTION B **(4Qx10M= 40 Marks)**		
Q 6	Illustrate with examples how Extreme Programming (XP) improves software quality. Discuss at least two practices of XP in your answer.	**10**	**CO4**
Q 7	Discuss the role of a Scrum Master in a Scrum Team. How does this role contribute to the success of an Agile project?	**10**	**CO3**
Q 8	Explain how Test-Driven Development (TDD) influences design decisions in software development projects. Include benefits and potential challenges.	**10**	**CO4**
Q 9	Analyze the impact of continuous feedback in Agile methodologies on the software development lifecycle. OR Describe how pair programming contributes to knowledge sharing and code quality. Discuss potential drawbacks.	**10**	**CO4**
	SECTION-C **(2Qx20M=40 Marks)**		
Q 10	You are part of a software development team transitioning from a traditional waterfall approach to Agile. Create a comprehensive plan for implementing Scrum and Kanban methodologies in your team. Discuss	**20**	**CO3**

	the steps you would take, the challenges you might face, and how you would measure success.		
Q 11	Design a software development project plan using Extreme Programming (XP), Pair Programming, and Test-Driven Development (TDD) methodologies. Explain how these methodologies will be integrated into the project, the expected outcomes, and how they will address common software development problems. OR Evaluate the integration of Agile practices into traditional software development environments, detailing the organizational changes needed and potential challenges faced during the transition.	**20**	**CO4**