

**POSSESSION OF MOBILES IN EXAM IS UFM PRACTICE.**

Name \_\_\_\_\_

Enrollment No. \_\_\_\_\_

**Jaypee Institute of Information Technology, Noida**

**End Semester Examination, 2023-24**  
**B.Tech. , 8<sup>th</sup> Semester**

**Course Title : Agile Software Development Process**  
**Course Code: 22B12CS414**

**Maximum Time : 2 Hr**  
**Maximum Marks: 35**

CO1	Interpret the trade off between traditional and agile software development methods.
CO2	Apply appropriate agile software engineering approach for a software development.
CO3	Apply appropriate tools for testing agile projects using various testing strategies.
CO4	Apply refactoring technique on source code for improved design.
CO5	Estimation and monitoring of agile projects.

**Note: Attempt all the questions.**

**Q1-** Despite the team's best efforts, the project backlog keeps growing and there is pressure to deliver more features within the same timeframe. How would you apply agile principles like "maximizing the amount of work not done" and "delivering working software frequently" to prioritize tasks effectively and ensure that the team focuses on delivering the most valuable features first, thereby reducing unnecessary work and improving productivity.

**[CO1 (Understand), 5 Marks]**

**Q2-** Your team has estimated the effort for each user story in the product backlog using story points. The total estimated effort for the backlog is 100 story points, if your team's velocity from the previous sprints was 20 story points, how many sprints do you estimate it will take to complete the backlog.

**[CO2 (Apply), 5 Marks]**

**Q3-** TechSolutions Inc. is a software development company specializing in creating cutting-edge solutions for various industries. To stay competitive and improve project outcomes, the company has decided to embark on an agile transformation journey and adopt Extreme Programming (XP) methodology. Discuss the benefits of pair programming and Test-Driven Development (TDD) as experienced by TechSolutions Inc. during their adoption of XP.

**[CO2 (Apply), 5 Marks]**

**Q4-** ABC Software Solutions is considering taking on larger projects in the future and wants to evaluate the scalability of Crystal Methodology (CM). Critically Analyze the challenges and opportunities associated with scaling crystal practices to accommodate larger teams, longer projects durations and