

Roll No.....

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BT-8/M-24: 48402-SE

OE-CS- AIDS-408 Agile Software Engineering

Time: 3 hours]

[Max. Marks: 75

Note: Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

Unit I

Q.1 Elaborate Agile process model also discuss five principles of agile in detail. 15

Q.2 Identify and discuss the key stakeholders involved in Agile software development projects. Also explain their roles and responsibilities throughout the project lifecycle and how effective stakeholder engagement contributes to project success. 15

Unit II

Q.3 Discuss strategies for monitoring progress in Agile projects also discuss techniques for targeting and motivating Agile teams to maintain high productivity and collaboration levels. 15

Q.4 Explain the need for Scrum in Agile software development and its working principles. Also discuss advanced Scrum applications. 15

Unit III

Q.5 a. Define user stories in Agile development and explain their significance in capturing requirements from a user-centric perspective. 7.5

b. Discuss best practices for managing a product backlog in Agile projects, including prioritization, estimation, and grooming techniques. 7.5

Q.6 a. Describe the core principles of Feature-Driven Development (FDD) and how it differs from other Agile methodologies. 7.5

b. Discuss the importance of integrating risk management practices into Agile software development processes. 7.5

Unit IV

Q.7 Explain the significance of metrics and measurements in Agile software development projects. Discuss at least three key Agile metrics used to track project progress. 15

Q.8 a. Evaluate the challenges associated with selecting appropriate metrics and ensuring their relevance in different Agile contexts. 7.5

b. Define the seven control parameters in Agile project management and their role in

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UNIT-I

1. Explain the principles of Agile methodology. How do these principles contribute to the success of an Agile project? 15
2. Discuss the role and responsibilities of key Stakeholders in Agile software development projects, as well as how effective Stakeholder engagement contributes to project success ? 15

UNIT-II

3. Explain the need for Scrum in Agile software development and its working principles. Also discuss advanced Scrum applications. 15
4. Discuss the key aspects of Agile product management, focusing on communication, planning, and estimation. How do these aspects contribute to managing the Agile approach and ensuring project success? 15

UNIT-III

5. (a) Elaborate the process of creating and managing user stories in Agile development. How do user stories feed into backlog management, and what practices ensure that the backlog remains relevant and prioritized? 9
- (b) Discuss the principles of Feature-Driven Development (FDD). 6
6. (a) Discuss the key practices of Agile risk management and quality assurance. How do Agile tools facilitate these practices? 9
- (b) Discuss various Agile testing techniques. 6

UNIT-IV

7. Elaborate the significance of metrics and measurements in Agile software development projects. Discuss key Agile metrics used to track project progress. 15
8. (a) Discuss the Agile approach to configuration management. How do Atern principles and philosophy support Agile practices? 9
- (b) Explain the concepts of refactoring, continuous integration, and the use of automated build tools in Agile development. 6