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Question Paper Code: UE107

B.E./B.Tech. DEGREE EXAMINATION, APRIL/ MAY 2025

Professional Elective

21ADV107-ESSENTIALS OF SCRUM

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. List out the Advantage and Disadvantages of Agile Methodology. CO1-U
2. In your Agile team, code integration is happening only at the end of the sprint, causing issues with testing. How would you encourage the team to adopt continuous integration practices? CO2-App
3. What are the Classifications of Agile Methodology? CO1-U
4. Your team is experiencing low morale after missing sprint goals for several consecutive sprints. How would you use Agile practices to boost team morale and refocus the team? CO2-App
5. Define Agile Information Systems. CO1-U
6. How should you manage the situation to balance the new request with the existing sprint commitments? CO2-App
7. What are the three main roles in a Scrum team? CO1-U
8. Define Little's Law. CO1-U
9. Your team doesn't have a dedicated Product Owner, and stakeholders are often unavailable for feedback. How would you manage this situation while adhering to Agile methodology? CO2-App
10. What is a "use case" in Requirements Engineering? CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Describe how Agile methodology handles changing requirements during a project. CO2-App (16)

Or

- (b) Why customer involvement is considered crucial in Agile methodologies? CO2-App (16)

12. (a) What are the core values of the Agile Manifesto, and how do they influence the Agile process? CO1-U (16)
- Or
- (b) What are the key roles in the Scrum framework, and what are their primary responsibilities? CO1-U (16)
13. (a) What are some common barriers to effective knowledge sharing within an organization? How can these barriers be overcome? CO1-U (16)
- Or
- (b) What are the significance of "time boxing" in managing tasks within the Agile process? CO1-U (16)
14. (a) What are the core principles of Lean, and how do they contribute to process improvement? CO1-U (16)
- Or
- (b) How does the "pull system" function in Kanban, and what are its benefits for managing workflow? CO1-U (16)
15. (a) Explain the role of stakeholders in the requirements engineering process. CO1-U (16)
- Or
- (b) How does requirements validation ensure that the final product meets customer needs? CO1-U (16)