

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Question Paper Code: UE107**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

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. What is meant by 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 is meant by Lean Production? CO1-U
4. List out the Parameters of Agile Methodology? CO1-U
5. Explain Lean Thinking? CO1-U
6. List out the Parameters of Traditional Model? CO1-U
7. What approach would you take to decide which improvements to implement and how to integrate them into the team's workflow? CO2-App
8. What is meant by Kanban? CO1-U
9. What is the purpose of the Daily Scrum (Stand-up) meeting? CO1-U
10. How does Test-Driven Development (TDD) work in Agile? CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Develop a set of user stories for a social media application that allows users to post updates, follow others, and like posts. Conduct a Planning Game session to prioritize and estimate the user stories. CO2-App (16)

Or

- (b) How do Agile practices promote faster delivery of software? 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) A team using Kanban has observed that certain team members are overloaded while others have too little to do. How would you restructure their Kanban board and adjust their workflow to achieve a more balanced distribution of work? CO2-App (16)
- Or
- (b) A manufacturing company has identified that 10% of its products have defects, resulting in high rework costs. What Lean tools would you use to identify the causes of these defects, and how would you redesign the process to eliminate them? CO2-App (16)
15. (a) How does Agile methodology handle changing customer requirements during a project? CO1-U (16)
- Or
- (b) Explain the role of stakeholders in the requirements engineering process. CO1-U (16)