

POKHARA UNIVERSITY
MODEL QUESTION

Level: Bachelor Year: 2024 Program: Software Engineering Full Marks: 100
Course: Agile Software Development *margin indicate full marks.*
Year, Semester: III/VI *Attempt all the questions.*
Candidates are required to answer in their own words as far as practicable. The figures in the Pass Marks: 45 Time: 3 hrs.

1. a) Explain the Agile Manifesto and how its values contrast with traditional methodologies. 7
(Unit 1)
b) Compare Scrum and Kanban frameworks. 8
(Unit 2)
2. a) Describe the Extreme Programming (XP) core practices and how they improve software quality. 7
(Unit 2)
b) How can Agile planning be described using user stories and planning poker? Include an example of how story points are used. 8
(Unit 3)
3. a) You are leading a project for a startup where priorities change every week. Propose a flexible yet structured risk management plan that embraces change without losing momentum. 7
(Unit 3)
b) Explain the role of project management and collaboration tools in enhancing Agile workflows in distributed teams. 8
(Unit 4)
4. a) Explain CI/CD with relevant tools and the steps to implement a CI/CD pipeline. 8
(Unit 4)
b) Explain TDD and BDD with their key benefits. 7
(Unit 5)
5. a) What is the SAFe framework? Highlight key roles and when SAFe is suitable to use. 7
(Unit 6)
b) Define and differentiate between Velocity, Cycle Time, and Lead Time. How are they used to monitor Agile performance? 8
(Unit 7)
6. a) What do you mean by Agile transformation? Explain about key steps and challenges in

Agile transformation.
(Unit 8)

7

- b) Design a 'Trust-Building Sprint' for a newly formed Agile team composed of diverse members from different departments. What practices and ceremonies would you include while doing so and why?

8

(Unit 9)

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7. Write short notes on: (Any two)

2×5

- a) Servant Leadership in Agile Teams

(Unit 9)

- b) Refactoring and Code Reviews

(Unit 5)

- c) Successful Agile Project

(Unit 8)

Weightage Distribution Table

Unit	1	2	3	4	5	6	7	8	9	Total
Lecture hrs.	3	7	6	6	6	4	3	6	4	45
Lecture %	6.7	15.5	13.3	13.3	13.3	8.8	6.7	13.3	8.8	100
Marks allocated	7	15	15	16	12	7	8	12	13	105
Marks in %	6.6	14.2	14.2	15.2	11.4	6.7	7.6	11.4	12.3	100

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