

PRN No.	
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PAPER CODE	U225-283 (EJS)
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(AY:2024-25) May 2025 (ENDSEM) EXAM
SY (SEMESTER - II)

**COURSE NAME: Agile
Principles and
Methodology**

**Branch: CE(Software
Engineering)**

**COURSE
CODE: SE22233**

SY (Pattern 2023)

Time: [1Hr 30 Min]

[Max. Marks: 40]

(*) Instructions to candidates:

- 1) **Figures to the right indicate full marks. Use of scientific calculator is allowed**
- 2) **Use suitable data wherever required**
- 3) **All questions are compulsory. Solve any two sub question each from Questions 1 , 2 ,3 and 4**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Explain the significance of the Agile Manifesto in software development ?	[5]	1	Understand
	b) Discuss the roles involved in a Scrum team?	[5]	1	Understand
	c) Illustrate the key principles behind Lean Software Development ?	[5]	1	Understand
Q2	a) Explain the term Project Velocity and its use in sprint forecasting?	[5]	2	Understand
	b) Describe the purpose of Sprint Planning and who attends it?	[5]	2	Understand
	c) Give examples of any five Estimation Techniques in agile software development with suitable example?	[5]	2	Understand
Q3	a) Outline the concept of risk-based testing with an example?	[5]	3	Apply
	b) Demonstrate how acceptance criteria can be written for a user story like "Search for products in an e-commerce site"?	[5]	3	Apply
	c) Illustrate the need for continuous regression testing in Agile environments?	[5]	3	Apply
Q4	a) Justify how the Liskov Substitution Principle supports extensibility?	[5]	4	Evaluate
	b) Evaluate different refactoring techniques in terms of impact on performance and readability?	[5]	4	Evaluate
	c) Determine the impact of poor design principles on Agile project delivery speed?	[5]	4	Evaluate

