Seat.	No.	

## KADI SARVA VISHWAVIDYALAYA

BE SEMESTER-V (CE/IT/CSE) Examination April - 2025

Subject Name: Software Engineering

Subject Code: CT501-N

Date: 05/04/25 Time: 12:30 pm to 3:30 pm Total Marks: 70

## Instructions:

- 1. Answer each section in separate answer sheet.
- 2. Use of scientific calculator is permitted.
- 3. All questions are Compulsory.
- 4. Indicate clearly, the option you attempt along with its respective question number.
- 5. Use the last page of main supplementary of rough work.

## Section-I

Q-1	(A)	Define software engineering. What is the need of software engineering?		
	(B)	How are Software Myths affecting Software Process? Explain it in brief.	[5]	
	(C)	Explain Software Engineering as a Layered Technology.	[5]	
		OR		
	(C)	What is agility? List the different agile process model and Explain scrum model in details.	[5]	
Q-2	(A)	Explain Spiral model with diagram and also write advantages of this model.	[5]	
	(B)	Draw an use case diagram for college management system.	[5]	
		OR		
Q-2	(A)	What is SRS? Explain characteristics of a good SRS.	[5]	
	(B)	Explain XP programing model with its advantages.	[5]	
Q-3	(A)	What is requirements elicitation? Explain various activities performed in it.	[5]	
	(B)	Define following terms: 1) Abstraction 2) Architecture 3) Modularity 4) Cohesion 5) Information hiding.	[5]	
		OR		
Q-3	(A)	Explain functional and non-functional requirements of hospital management system.	[5]	
	(B)	Explain Computer Aided Software Engineering (CASE).	[5]	

## Section-II

Q-4	(A)	What is testing? Write a difference between unit testing and integration testing strategy.	[5]
	<b>(B)</b>	List and explain requirement engineering tasks.	[5]
	(C)	Draw an activity diagram for electricity billing system.	[5]
		OR	
	(C)	Explain LOC based Software Project Estimation Model with Example.	[5]
Q-5	(A)	What do you mean by risk? Explain any two types of software risk.	[5]
	<b>(B)</b>	Write a difference between the less and black box and white box testing.	[5]
		OR	
Q-5	(A)	What is coupling? Explain any two types of coupling.	[5]
	(B)	Explain COCOMO – II model with example.	[5]
Q-6	(A)	What is RMMM? Explain in details.	[5]
	(B)	Provide at least two real-world examples of soft-trends to support your explanation.  OR	[5]
Q-6	(A)	What is pattern-based software design? Explain quality attributes of software design.	[5]
	(B)	What is SQA? Explain tasks of SQA.	[5]

-----Best of Luck-----