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## KADI SARVA VISHWAVIDYALAYA

BE SEMESTER-V (CE/IT/CSE) Examination October - 2024

Subject Name: Software Engineering

Subject Code: CT501-N

**Total Marks: 70** Time: 12:30 pm to 3:30 pm Date: 17/10/24

## 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

	•		r # 3
Q-1	(A)	Define software engineering. What is the need of software engineering?	[5]
Q-1	` '	Explain software development life cycle with diagram.	[5]
	<b>(B)</b>	Explain software development in a system of Web Anns	[5]
	<b>(C)</b>	What is WebApps? Explain the unique nature of WebApps.	
		OR	[5]
	(C)	What is agility? List the different agile process model and Explain XP programing in details.	
Q-2	(A)	Explain incremental process model with diagram and also write advantages of this	[5]
•	,	model	[5]
	(B)	Draw a sequence diagram for electricity billing system.	
	(-)	OR	[5]
Q-2	(A)	What is SRS? Explain characteristics of a good SRS.	
	-	Explain scrum model with its advantages.	[5]
	<b>(B)</b>	•	5.63
		What is requirements elicitation? Explain various activities performed in it.	[5]
Q-3	(A)	What is requirements enormalism is a state different types of counling.	[5]
	<b>(B)</b>	Define module coupling and cohesion. Explain different types of coupling.	
	` ,		[5]
Q-3	(A)	Explain functional and non-functional requirements of library management system.	[5]
•	. ,	What do you know about CASE tools? Explain in details.	[-]
	<b>(B)</b>	Within Go James	

## Section-II

Q-4	<b>(A)</b>	Explain unit testing and integration testing strategy.	[5]
	<b>(B)</b>	List and explain requirement engineering tasks.	[5]
	<b>(C)</b>	Draw a data flow diagram for pay-roll information system.	[5]
		OR	
	(C)	Explain FP based software project estimation model with example.	[5]
Q-5	(A)	What do you mean by risk? What is software risk? Explain any two types of software risk.	[5]
	<b>(B)</b>	Write a difference between the alpha testing and beta testing.	[5]
		OR	
Q-5	(A)	Explain the following terms: Abstraction, Architecture, Modularity, Refinement and Refactoring.	[5]
	<b>(B)</b>	What is pattern based software design? Explain quality attributes of software design.	[5]
Q-6	(A)	Explain COCOMO – II model with example.	[5]
	<b>(B)</b>	Provide at least two real-world examples of soft-trends to support your explanation.  OR	[5]
Q-6	(A)	What is RMMM? Explain in details.	[5]
	<b>(B)</b>	Define software quality assurance (SQA). Explain its importance in the software development lifecycle.	[5]

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