Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2022	
Subj	ect (Code:3150711 Date:06-01-2	023
•		Name:Software Engineering	
•		:30 AM TO 01:00 PM Total Marks	:70
Instru			
		Attempt all questions.	
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	
			Marks
Q.1	(a)	List the goals of software engineering?	03
	(b)	Distinguish between process and methods.	04
	(c)	Explain the Evolutionary and Incremental Model. What are the Advantages and Disadvantages?	07
Q.2	(a)		03
Q.2	(a)	1) Agile methods 2) Agile process	05
	(b)		04
	(c)	Explain how breakdown structure is used in software engineering. Discuss	07
	(C)	how software project scheduling helps in timely release of a product.	0.
		OR	
	(c)	Discuss the concept of risk assessment and risk control.	07
Q.3	(a)	What are functional requirements?	03
	(b)	What are the elements of Analysis model?	04
	(c)	State and explain the requirements engineering tasks in detail. OR	07
Q.3	(a)	What are non-functional requirements?	03
	(b)	•	04
	(c)	Explain the feasibility studies. What are the outcomes? Does it have either	07
		implicit or explicit effects on software requirement collection?	
Q.4	(a)	How to measure quality and defect removal efficiency.	03
	(b)	Explain reverse engineering.	04
	(c)	What is coupling? Explain the various types of coupling?	07
		OR	
Q.4	(a)	What is the importance of SQA?	03
	(b)	Explain the version control and change control.	04
	(c)	What is cohesion? Explain the various types of cohesion?	07
Q.5	(a)	What are the levels at which testing done?	03
	(b)	Describe the different challenges with DevOps implementation.	04
	(c)	What do you mean by integration testing? Explain their outcomes.	07

OR

(b) What is DevOps? Explain the importance and benefits of the DevOps.

Q.5 (a) Define basic path testing.

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(c) What is white box testing? Why it is required? Discuss different techniques of it?

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