Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2023

Subject Code:3161605 Date	04-07-202	3
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Subject Name:Software Engineering

al Marks:70
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Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	4.	Simple and non-programmable scientific calculators are allowed.	MARKS
Q.1	(a)	What is Software Engineering? Justify Software is Engineered but not Manufactured	03
	(b)	What is Process? Discuss the process framework activities.	04
	(c)	Explain Spiral Process Model and states its advantages and disadvantages.	07
Q.2	(a)	Discuss the differences among Reactive and Proactive Risks.	03
	(b)	team to respond rapidly to a change.	04
	(c)	Explain Project Scheduling Process. Also Explain Gantt Chart in detail.	07
	(-)	OR	07
	(c)	Explain COCOMO model for cost estimation.	07
Q.3	(a)	List the characteristics of a good quality SRS.	03
C	(b)	~ · · · · · · · · · · · · · · · · · · ·	04
	(c)	Enlist and Explain Requirement Engineering Tasks in detail. OR	07
Q.3	(a)	Compare Coupling and Cohesion.	03
	(b)	Draw Use Case Diagram for ATM System.	04
	(c)	What is Risk Management? Explain RMMM plan	07
Q.4	(a)	Describe golden rules of User Interface Design.	03
	(b)	S .	04
	(c)	What is Software testing? Compare: Black box testing and White Box testing	07
0.4	(-)	OR	02
Q.4	(a) (b)	Give the difference between Validation and Verification. What is Cyclomatic Complexity? Define steps to find cyclomatic	03 04
	(D)	complexity using flow graph.	04
	(c)	Explain the importance of Software Quality Assurance. Also explain	07
	(-)	different CMM levels.	
Q.5	(a)	Describe CASE building blocks.	03
	(b)	Write short note on Reverse Engineering.	04
	(c)	List and explain the challenges in DevOps Implementation.	07
		OR	
Q.5	(a)	Explain Version and Change Control Management.	03
	(b)	Explain Formal Technical Review.	04
	(c)	Explain Software Re-Engineering process model.	07