

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2021****Subject Code:3150711****Date:01/01/2022****Subject Name:Software Engineering****Time:02:30 PM TO 05:00 PM****Total Marks: 70****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) Write a short note on Software Configuration Management.	03
(b) Compare Spiral Model with Prototype model.	04
(c) What is Software Testing? What is the role of a Software Tester? Compare Black Box and White Box Testing.	07
Q.2 (a) Compare Waterfall model with RAD model.	03
(b) Explain merits and demerits of Scrum.	04
(c) Explain Agile Development in detail.	07
OR	
(c) Explain DevOps life Cycle.	07
Q.3 (a) Explain Formal Technical Review.	03
(b) Define Coupling and Cohesion. What is the difference between cohesion and coupling?	04
(c) What is Requirement Engineering? List the Functional and Non-Functional requirements for Blood bank Management system.	07
OR	
Q.3 (a) State the difference between procedural Design and Object Oriented Design.	03
(b) Explain Software metrics used for software cost estimation.	04
(c) Write SRS For Students Result Management System.	07
Q.4 (a) Write short note on Version Control.	03
(b) What are the fundamental differences between DevOps & Agile Development?	04
(c) Explain project scheduling process and Gantt Chart in detail.	07
OR	
Q.4 (a) Write short note on Six Sigma standard.	03
(b) Explain RMMM plan.	04
(c) What is the importance of Software Quality Assurance? Explain different CMM levels.	07
Q.5 (a) Write short note on Reverse-engineering.	03
(b) Which are the Software quality standards? Explain any one.	04
(c) What is an architectural design? Enlist different style and patterns of architecture.	07
OR	
Q.5 (a) Write short note on Re-engineering.	03
(b) Explain the SQA activities.	04
(c) What is BVA? Explain merits and demerits of BVA.	07
