

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:3161605****Date:13-12-2022****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) Explain the process model which is used in situations where the user requirements are not well understood	03
	(b) Draw the extreme programming process	04
	(c) Explain Software Engineering as a Layered Technology	07
Q.2	(a) Define Generalization. Explain with example	03
	(b) Define feasibility study. Enlist and explain the contents to be included in the feasibility study report.	04
	(c) Explain Project Scheduling Process. Also Explain Gantt Chart in detail	07
OR		
	(c) Describe CASE building block.	07
Q.3	(a) Explain the different phases of Waterfall model.	03
	(b) Explain steps involved during the prototyping	04
	(c) Explain Functional Requirement and Non-Functional Requirement with example.	07
OR		
Q.3	(a) Distinguish between verification and validation	03
	(b) Differentiate Software Engineering and Reverse Engineering.	04
	(c) Write a short note on formal technical review	07
Q.4	(a) Explain 4 P's of effective Project Management in detail.	03
	(b) What is the importance of User Interface? Explain User Interface design rules	04
	(c) Explain Black box testing and White box testing. Discuss all the testing strategies that are available.	07
OR		
Q.4	(a) Explain Version and Change Control Management.	03
	(b) Explain Agile model	04
	(c) List and explain different types of testing done during testing phase.	07
Q.5	(a) Draw E-R Diagram for Online shopping System	03
	(b) What is architectural design? Enlist different style and patterns of architecture.	04
	(c) Explain concept of Test Case	07
OR		
Q.5	(a) What is Cyclomatic Complexity?	03
	(b) Briefly Explain: Requirement Elicitation	04
	(c) Explain Risk Management. Explain RMMM plan	07
