

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code:2160701****Date:04-07-2023****Subject Name:Software Engineering****Time:10:30 AM TO 01:00 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) Define following terms.	03
	1. Software	
	2. Process	
	3. Software Requirement Specification	
	(b) Write a short note on Extreme Programming.	04
	(c) Discuss the importance of Process Model in development of Software System. Explain Prototype Process Model.	07
Q.2	(a) Describe factors that should be considered when the structure of a software team is chosen.	03
	(b) Explain RMMM	04
	(c) Prepare SRS for GTU e-assessment software.	07
	OR	
	(c) Explain W ⁵ HH principle.	07
Q.3	(a) Differentiate between Function Oriented Design and Object Oriented Design	03
	(b) Define Architectural Design. Enlist different styles and patterns of architecture.	04
	(c) Develop a complete use case for searching of books (on a specific topic) using an on-line bookstore.	07
	OR	
Q.3	(a) Differentiate between alpha testing and beta testing.	03
	(b) Enlist the steps for top-down integration.	04
	(c) Discuss the importance of User Interface. Explain User Interface design rules.	07
Q.4	(a) Enlists the elements of Software Quality Assurance.	03
	(b) Differentiate between Coupling and Cohesion.	04
	(c) List and explain different types of testing techniques in detail.	07
	OR	
Q.4	(a) Explain Formal Technical Review.	03
	(b) Enlists the core steps of the Six Sigma methodology.	04
	(c) Explain Software Configuration Management (SCM) process in detail.	07
Q.5	(a) Explain Version and Change Control Management.	03
	(b) Explain 4 P's of effective Project Management in detail.	04
	(c) Write short note on software Re-engineering.	07
	OR	
Q.5	(a) Explain Software as a Service (SaaS).	03
	(b) Define steps to find cyclomatic complexity using flow graph.	04
	(c) Discuss Software Configuration Management in detail.	07