

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:2160701****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) Differentiate alpha testing and beta testing.	03
	(b) Prepare an E-R diagram for a Hospital Management System.	04
	(c) What is Software Engineering? Explain Software Engineering: A Layered Technology.	07
Q.2	(a) Explain Change Control Management.	03
	(b) What is User Interface Design? Explain Golden Rules of User Interface Design.	04
	(c) Draw the Time-line chart for the Hospital Management System.	07
OR		
	(c) Explain Client/Server Software Engineering.	07
Q.3	(a) Differentiate validation and verification.	03
	(b) Explain Cyclomatic Complexity with example.	04
	(c) Discuss RMMM.	07
OR		
Q.3	(a) Explain Version Control Management.	03
	(b) Difference between reverse engineering and forward engineering.	04
	(c) Explain Spiral model with suitable example.	07
Q.4	(a) List the characteristics of a good quality SRS.	03
	(b) Explain the merits and demerits of SCRUM.	04
	(c) Explain Software as a Service. Give its applications.	07
OR		
Q.4	(a) Discuss the concept of Agility.	03
	(b) Define Cohesion and Coupling. Explain Different types of Cohesion.	04
	(c) Explain Formal Technical Review.	07
Q.5	(a) Differentiate Bugs, Errors and Defects.	03
	(b) Explain Software Process Improvement.	04
	(c) Explain Requirement engineering process.	07
OR		
Q.5	(a) What is Software testing? What is the role of software tester?	03
	(b) Explain in brief: Process and Product	04
	(c) Explain five-level of SEI-CMM.	07
