

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER III- EXAMINATION –SUMMER-2024

Subject Code: 639403

Date: 18/05/2024

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. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1** (a) What is SDLC? Describe briefly Generic Process Framework. **07**
(b) What is Evolutionary Process Models? Discuss why spiral model is called risk driven process model. **07**
- Q.2** (a) Prepare SRS for College Management System. **07**
(b) What is Requirement Engineering? List out Elements of Requirement Model. Discuss Class based element with example. **07**
- OR**
- (b) What do you mean by Eliciting Requirements? What is its role in building analysis model? **07**
- Q.3** (a) What is architecture? Discuss taxonomy of Architectural Styles. **07**
(b) What is refactoring? Briefly describe four elements of the design model. **07**
- OR**
- Q.3** (a) What is abstraction? List out types of abstraction. Discuss the importance of data abstraction in the software design process. **07**
(b) Explain three golden rules that form the basis of interface design in detail. **07**
- Q.4** (a) Discuss briefly 12 Agile Principles. **07**
(b) Discuss Scrum Rules in detail. **07**
- OR**
- Q.4** (a) Discuss Scrum and Scrum Value Revisited. **07**
(b) Discuss the following terms: 1. Sprint, 2. Project Velocity, 3. User Stories. **07**
- Q.5** (a) Draw an appropriate diagram of an order management system for state chart. **07**
(b) Draw an interaction diagram for Library Management System. **07**
- OR**
- Q.5** (a) Draw an activity diagram for Online Ticket Booking System. **07**
(b) What is milestone? Prepare TimeLine Chart. **07**
