

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER V- EXAMINATION –WINTER-2023

Subject Code:4659303**Date: 04/12/2023****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. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1** (a) Explain Black box testing. **07**
(b) Explain extreme programming. **07**
- Q.2** (a) Explain incremental model with advantages and disadvantages. **07**
(b) Discuss Architectural Patterns. **07**
- OR**
- (b) Discuss development of use cases with an example. **07**
- Q.3** (a) Explain Burn Down charts and story cards. **07**
(b) Discuss the golden rules for UI Design. **07**
- OR**
- Q.3** (a) Discuss testing strategies for web applications. **07**
(b) Discuss following design issues. **07**
1. Response time.
2. Error handling.
- Q.4** (a) Explain waterfall model in detail. **07**
(b) Explain class diagrams in UML. **07**
- OR**
- Q.4** (a) Explain control structure testing. **07**
(b) Explain state diagram with example. **07**
- Q.5** (a) Discuss creation of a behavioral model with an example. **07**
(b) Explain sequence diagram with example. **07**
- OR**
- Q.5** (a) Explain Agile methods and development process. **07**
(b) Discuss following with reference to design concepts. **07**
1. Separation of Concerns.
2. Abstraction.
