

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER V - EXAMINATION –SUMMER-2021

Subject Code: 4659303**Date: 05-08-2021****Subject Name: Software Engineering (SE)****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.**

- Q.1 (a)** Answer the following questions in short. **07**
- (1) What is Software Engineering?
 - (2) List out only name of five framework activities of Software Development Process.
 - (3) Which are the three questions generally discussed in every scrum meeting?
 - (4) What is Software Architecture?
 - (5) List out various typical errors in user interface design.
 - (6) What is Regression Testing?
 - (7) What is Actor in User Case? Give few examples of it.
- (b)** Explain the waterfall model in details with its advantages and disadvantages. **07**
- Q.2 (a)** What is Agile Software Development Process? Explain XP in details with diagram. **07**
- (b)** What is Requirement Engineering? Explain seven distinct task of it. **07**
- OR**
- (b)** List out various design concept and explain any three in details. **07**
- Q.3 (a)** What is Architectural Style? Explain Data Centered Architecture and Data Flow Architecture in details. **07**
- (b)** Describe term: User Interface. Explain three golden rules for user interface design. **07**
- OR**
- Q.3 (a)** What is System Testing? Explain various types of system testing. **07**
- (b)** What is White Box Testing? List out various other names of white box testing and explain its various techniques in details. **07**
- Q.4 (a)** What is Agile Process? List out various Agility Principle. **07**
- (b)** Draw a Class Diagram and Use Case Diagram of Online Exam System. **07**
- OR**
- Q.4 (a)** Draw a Context Level and First Level DFD of Online Shopping Portal. **07**
- (b)** Prepare an Activity and Sequence Diagram of any University ERP System. **07**
- Q.5 (a)** Prepare at least five Test cases of ATM System. **07**
- (b)** Draw Use Case & Activity diagram of Ticket Booking System. **07**
- OR**
- Q.5 (a)** Prepare Agile Project Charter and Agile Schedule for Hospital Management System. **07**
- (b)** Prepare Agile Project Plan and Agile User's Story of Library Management System. **07**
