

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA – SEMESTER - V EXAMINATION – WINTER-2022**

**Subject Code: 4659303****Date: 29/12/2022****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.

- Q.1 (a) Do as directed. 07**
1. Define Software
  2. Define Software Engineering
  3. List the phases of SDLC.
  4. List 4P's of Project Management.
  5. What is Sprint
  6. What is Agile?
  7. Define Stress Testing
- (b) Differentiate between prescriptive and evolutionary process model. Explain Spiral and increment model with proper diagram. 07**
- Q.2 (a) What is Software Process? Explain activities Generic Process Framework. 07**
- (b) What do you mean by requirement Engineering? Describe the seven distinct tasks encompassed in requirement engineering. 07**
- OR**
- (b) Write a note on Waterfall Model. 07**
- Q.3 (a) Prepare Agile Document for E commerce web application. 07**
- (b) Define Architecture. Explain various Taxonomy of Architectural Style. 07**
- OR**
- Q.3 (a) State and explain the golden rules that form the basis of Interface Design. 07**
- (b) Explain Coupling and Cohesion. 07**
- Q.4 (a) Write a note on Black Box Testing. 07**
- (b) Prepare a scenario and write test cases for E commerce web application.(at least 5) 07**
- OR**
- Q.4 (a) Write a note on White box Testing. 07**
- (b) Prepare a scenario and write test cases for ATM(Automated Teller Machine) System ( at least 5) 07**
- Q.5 (a) Draw a use case diagram for E commerce web application. Make necessary assumptions for the same. 07**
- (b) Draw an activity diagram for E commerce web application. 07**
- OR**
- Q.5 (a) Draw a use case diagram for ATM (Automated Teller Machine) system. Make necessary assumptions for the same 07**
- (b) Draw an activity diagram for ATM (Automated Teller Machine) system. 07**

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