

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA - SEMESTER– V• EXAMINATION – WINTER 2020****Subject Code:4659303****Date:04/01/2020****Subject Name:Software Engineering****Time:10:30 AM to 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Do as directed: **07**
- 1 Enlist phases of SDLC.
 - 2 Software costs more to maintain than it does to develop. True/False.
 - 3 What is sprint?
 - 4 Define Agile.
 - 5 List limitations of waterfall model.
 - 6 Define Stress Testing.
 - 7 What is difference between Regression and Retest testing?
- (b)** Define Software Process. Explain five activities of Generic Process Framework. **07**
- Q.2 (a)** Enlist different types of process models and explain any two in detail. **07**
- (b)** i) Draw context level diagram for library management system. **03**
- ii) Write test cases for MS-Paint. **04**
- Q.3 (a)** Prepare agile document for online shopping. **07**
- (b)** What do you mean by Requirement Model? Describe various Elements of the Requirements Model. **07**
- Q.4 (a)** Prepare agile document for restaurant management system. **07**
- (b)** Explain major elements for the Design Model. **07**
- Q.5 (a)** Define Architecture. Explain various Taxonomy of Architectural Style. **07**
- (b)** What do you mean by requirement Engineering? Describe the seven distinct tasks encompassed in requirement engineering. **07**
- Q.6 (a)** Explain different types of testing in detail. **07**
- (b)** i) What is Acceptance Testing? What are its types? **04**
- ii) Write a test case for a simple calculator. **03**
- Q.7 (a)** State and explain the golden rules that form the basis of Interface Design. **07**
- (b)** i) Difference between Black box testing & white box testing. **04**
- ii) Explain boundary value analysis and equivalence partitioning. **03**
- Q.8 (a)** List out different design concept and explain any six in details with suitable example. **07**
- (b)** Draw state transition diagram for telephone line. **07**
