

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**
