

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –IV EXAMINATION –SUMMER-2019

Subject Code:3640003

Date: 18-05-2019

Subject Name: Basic Computer Science-4(Software Engineering)

Time:10.30 am to 1.00 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) Discuss Scrum Technology with detailed diagram and explanation. **07**
(b) Explain Evolutionary Process Model in details. **07**
- Q.2** (a) Explain the requirement engineering tasks. **07**
(b) Discuss Waterfall process model in detail. **07**
- OR**
- (b) What are the scenarios where incremental model is used? Also explain the model in detail. **07**
- Q.3** (a) Discuss architectural styles and design **07**
(b) Explain the W5H2 model. **07**
- OR**
- Q.3** (a) Discuss the golden rules for UI design. **07**
(b) Write a brief account on the project management spectrum with respect to People, Product and Process. **07**
- Q.4** (a) Write a brief account on FTR. **07**
(b) Discuss COCOMO model with proper example. **07**
- OR**
- Q.4** (a) What is the need for testing in project development? Explain with example black box and white box testing. **07**
(b) Explain the following: **07**
(i) FP based estimation
(ii) LOC based estimation
- Q.5** (a) Explain the concept of Class and Object from modeling point of view. Also give suitable example to support your answer. **07**
(b) What is the purpose of state diagram? Support your answer with appropriate example. **07**
- OR**
- Q.5** (a) (i) What is the purpose of class modeling? Explain with example. **07**
(ii) Explain the terms generalization and inheritance.
(b) Draw Use-Case diagram and Class diagram for any system of your choice. **07**
