

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-IV EXAMINATION – WINTER 2018

Subject Code: 3640003

Date: 22/11/2018

Subject Name: Basic ComputerScience-4(SoftwareEngineering)

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)** Answer the following question. **07**
- i. What is Scrum?
 - ii. Define: Validating Requirement
 - iii. What is Information Hiding?
 - iv. Differentiate: Error & Defect.
 - v. Who is Stakeholder?
 - vi. What is Metadata?
 - vii. Who is an Actor?
- (b)** List out various Process Model of Software engineering? Explain any one Process Model in detail. **07**
- Q.2 (a)** What do you mean by Requirement Model? Describe various Elements of the Requirements Model. **07**
- (b)** What do you mean by Extreme Programming? Describe Extreme Programming Process in detail. **07**
- OR**
- (b)** Discuss the Flow Oriented Modeling Techniques for Software Engineering in detail. **07**
- Q.3 (a)** Explain major elements for the Design Model. **07**
- (b)** What do you mean by Review Techniques? Discuss Format Technical Review (FTR) in detail. **07**
- OR**
- Q.3 (a)** What do you mean by Architecture? Explain various Taxonomy of Architectural Style. **07**
- (b)** What is Testing? Discuss Integration Testing in detail. **07**
- Q.4 (a)** What do you mean by Decomposition? Explain Decomposition Techniques for Software Project Estimation. **07**
- (b)** Write a short note on: The Software Team and Agile Team. **07**
- OR**
- Q.4 (a)** What do you mean by Object Orientation? Explain N-ary Association in detail with example. **07**
- (b)** Discuss the significance of State Chart Diagrams in Modeling a system. **07**
- Q.5 (a)** Write a short note on: Aggregation and Abstract Class. **07**
- (b)** Draw Class Diagram for ATM. **07**
- OR**
- Q.5 (a)** What is the use of Use case Diagram? Discuss Use case Diagram with its purposes and notation used in detail. **07**
- (b)** Draw Activity Diagram of Place Order in Restaurant for Online Restaurant Management System. **07**