

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA – SEMESTER-II EXAMINATION –SUMMER-2020****Subject Code:3620004****Date:07-11-2020****Subject Name:Object-Oriented Unified Modelling****Time:10:30 AM to 01:00 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 in short **07**
- 1) What is UML?
 - 2) What is Dependency?
 - 3) What is Aggregation?
 - 4) Define : Event and Signal
 - 5) What do you mean by Realization?
 - 6) What is Adornments?
 - 7) What do you mean by Visualizing?
- (b)** Discuss in brief with proper example why we model? Also discuss impotence of model? **07**
- Q.2 (a)** Discuss in brief things in Building Blocks of UML **07**
- (b)** Discuss in brief Generalization, extends and include in Use case with suitable example. **07**
- OR**
- (b)** Discuss in brief about Class diagram? Draw a class diagram of Patient registration system. **07**
- Q.3 (a)** Discuss in brief about object diagram with example **07**
- (b)** Discuss in brief Interaction Diagrams with example. **07**
- OR**
- Q.3 (a)** What is forward and reverse engineering? Explain in detail. **07**
- (b)** Discuss in brief Common Mechanism available in UML. **07**
- Q.4 (a)** Discuss in brief Sequence diagram with proper example? Also discuss how it defers from collaboration diagram? **07**
- (b)** Discuss in brief Activity diagram and draw an activity diagram of online mobile shop. **07**
- OR**
- Q.4 (a)** What is package? Discuss in brief import, export and generalization in package with suitable example. **07**
- (b)** Discuss in brief Use Case and Activity Diagram for Online student registration website. **07**
- Q.5 (a)** Discuss in brief deployment diagram? Write the difference between component and node. Discuss use of deployment diagram with proper example? **07**
- (b)** Discuss in brief with proper example Patterns and frameworks. **07**
- OR**
- Q.5 (a)** Discuss in brief component diagram? Explain characteristic of component. Write the difference between component and classes. **07**
- (b)** Discuss in brief with proper example Systems, subsystems, models, and views? **07**