

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

Subject Code:3620004

Date: 27-05-2019

Subject Name: Object-Oriented Unified Modelling

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 Following Terms (Any 7) **07**
- | | |
|------------------------|--------------------|
| 1. Event Trigger | 2. Guard |
| 3. Internal Transition | 4. Deferred Events |
| 5. Role Name | 6. Multiplicity |
| 7. Substate | 8. Message |
| 9. Link | 10. Sequencing |
- (b)** Draw a sequence diagram for online railway reservation. **07**
- Q.2 (a)** Draw an activity diagram for online travel booking system. **07**
- (b)** Draw a use case diagram for online shopping. **07**
- OR**
- (b)** Draw a use case diagram for digital library. **07**
- Q.3 (a)** Represent an object diagram graphically. **07**
- (b)** Differentiate messages, links and sequencing. **07**
- OR**
- Q.3 (a)** 1. Write a note on association navigation. **03**
2. Explain advanced relationship graphically. **04**
- (b)** What is a use case? Discuss various terms of use cases. **07**
- Q.4 (a)** Explain class diagram with suitable example and discuss common uses of class diagram. **07**
- (b)** What is state chart diagram? Explain with suitable example. **07**
- OR**
- Q.4 (a)** What is an event? Discuss the types of event. **07**
- (b)** What is generalization? Discuss multiple inheritances graphically. **07**
- Q.5 (a)** What is deployment? Explain node in detail. **07**
- (b)** Draw a component diagram for physical database. **07**
- OR**
- Q.5 (a)** What is deployment diagram? Explain with suitable example. **07**
- (b)** What is collaboration? Discuss structural aspects of collaboration. **07**
