

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- II EXAMINATION – WINTER 2018

Subject Code: 3620004

Date: 08-01-2019

Subject Name: Object-Oriented Unified Modelling

Time: 02.30 pm to 5.00 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 **07**
1. Define Generalization?
 2. What is an Active Class?
 3. What is an Instance?
 4. What is state?
 5. What do you mean by Dependency relationship?
 6. What is a component with respect to UML?
 7. What is the use of Note in UML?
- (b)** List the building blocks of UML. Explain structural and behavioral Things in detail. **07**
- Q.2 (a)** Discuss SDLC in detail. **07**
- (b)** What is Class? Explain the rules and regulations for declaring attributes and methods in class in UML **07**
- OR**
- (b)** Explain term Relationship and also explain types of Relationship in brief. **07**
- Q.3 (a)** Explain Multiplicity, Attributes, Visibility and Operations of Classes in detail. **07**
- (b)** What is a state machine? Explain using a suitable example. **07**
- OR**
- Q.3 (a)** Define Instance and Explain Object Diagram with example. **07**
- (b)** Discuss the stereotypes that can be applied to dependency relationships among classes and objects in class diagrams. **07**
- Q.4 (a)** Define Use Case Diagram. Explain Generalization, extends and include in Use case with example. **07**
- (b)** Draw Use Case and Activity Diagram for Online Library Management System. **07**
- OR**
- Q.4 (a)** Explain various component of Activity diagram. **07**
- (b)** Draw Use Case and Activity Diagram for Online Hospital Management System. **07**
- Q.5 (a)** Explain interaction diagram with suitable example. **07**
- (b)** What is the significance of deployment diagrams? Justify using suitable example. **07**
- OR**
- Q.5 (a)** Define Component and Component Diagram. Explain the relationship between component and class and component and Interface. **07**
- (b)** Draw Activity and Collaboration Diagram for Online Air Ticket Booking System. **07**
