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   **07**
detail.

Q.2 **(a)** Discuss SDLC in detail.   **07**
(b) What is Class? Explain the rules and regulations for declaring attributes and   **07**
methods in class in UML
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   **07**
classes and objects in class diagrams.

Q.4 **(a)** Define Use Case Diagram. Explain Generalization, extends and include in Use   **07**
case with example.
(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   **07**
component and class and component and Interface.
(b) Draw Activity and Collaboration Diagram for Online Air Ticket Booking   **07**
System.

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