Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- II EXAMINATION - WINTER 2019

Subject Code: 3620004 Date: 26/12/2019

Subject Name: Object-Oriented Unified Modelling

Time: 02:30 PM TO 05:00 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)	Do as Directed.	07
	1) What is Model?	
	2) Multiplicity.	
	3) Define Note.	
	4) Define Instance.	
	5) Collaborations.	
	6) UML	
	7) Define:-Time Event.	
(b)	Write Short note on Relationship in UML.	07
Q.2 (a)	Explain Behavioral diagrams available in UML.	07
(b)	Define Use case. Draw Use Case diagram for Hotel Management System.	07
	OR	
(b)	Explain the term Relationship with its types.	07
Q.3 (a)	What is package? Explain import, export and generalization in package with example.	07
(b)	Define Action state and Activity state. Draw activity diagram for Computing a	07
	restaurant bill. There should be a charge for each delivered item. The total amount	
	should be subject to tax and a service charge of 15% for groups of six of more. For	
	smaller groups, it should be 10%. Any coupons or gift certificates submitted by the	
	customer should be subtracted.	
	OR	
(a)	Explain Object Diagram with example.	07
(b)	Define Interface. What is the use of interface and explain the relationship between	07
	Class and Interface.	
Q.4 (a)	Define Class Diagram and Draw class diagram for online shopping system.	07
(b)	What are classifiers? Explain different kinds of classifiers in detail.	07
	OR	
(a)	Explain various component of Activity diagram.	07
(b)	1) Explain various purpose of Modeling.	03
	2)What do you mean by object orientation? Briefly explain concept of OO.	04
Q.5 (a)	Define component. Explain characteristic of component. Write the difference between	07
	component and classes.	
(b)	Explain Following Terms.	
	1) < <include>> and <<extends>> relationship in UseCase.</extends></include>	04
	2) Forward and backward Engineering.	03
	OR	
(a)	Define Event. Explain Different types of event in detail.	07
(b)	Define deployment diagram. Write the difference between component and node. How deployment diagram will use?	07
