Seat No.: _____ Enrolment No._____

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) 1. Event Trigger 2. Guard 3. Internal Transition 4. Deferred Events 5. Role Name 6. Multiplicity 7. Substate 8. Message 9. Link 10. Sequencing	**07**
	(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. 2. Explain advanced relationship graphically.	**03** **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**

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