Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY MCA INTEGRATED- SEMESTER- IV• EXAMINATION – SUMMER 2015

Subject Code: 4440604 Date: 18 /05 2015 Subject Name: UML & Object-oriented Modeling Time: 10:30 a.m. to 1:00 p.m. **Total Marks: 70** Instructions: 1. Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. i. is the relationship between Interface and Class. 07 **Q.1** (a) You use case diagrams to illustrate the static design view of a system. ii. Justify iii. Action state can't be decomposed. Justify An is the vertical dashed line that represents the existence iv. of an object over a period of time in sequence Diagram. Define Signal Class. v. The process of transforming the model into code is called vi. Dependency is represented with symbol _____ vii. Define the Following 07 **(b)** i. **UML** ii. Instance Time Event iii. Links and Associations iv. Collaborations. v. Note vi. vii. Multiplicity **Q.2** (a) Write a short on Relationships in UML. 07 Explain State chart Diagram. Draw state Diagram of Telephone line. 07 **(b) (b)** Explain Structural and Behavioral Things in UML **07** 0.3 Define Package. Explain Import and Export and Generalization Relationship 07 (a) in packages. **(b)** Write a short note on Deployment Diagram and prepare Deployment Diagram 07 for ATM System. **Q.3** List and Explain Common Mechanisms of UML. 07 (a) What is Constraint? How you apply constrain with Objects and links explain **(b)** 07 with example. **Q.4** What do you mean by Interaction? Explain Interaction Diagrams with **07** (a) example Explain Attributes and methods of class diagram with syntax and also explain **(b)** 07 Visibility of Class. OR Define Component and explain Component Diagram with example. 07 0.4 (a) **(b)** Define Aggregation and Composition. Differentiate both the terms and 07 provide pictorial representation

Q.5	(a)	Draw Use Case and Activity Diagram for Online Exam website.	07
	(b)	Define Activity Diagram. Explain Forking, joining and Swimlanes in Activity	07
		Diagram with example.	
		OR	
Q.5	(a)	Define Class Diagram and draw class diagram for Railway Reservation System	07
	(b)	Define Use Case Diagram. Explain Generalization, extends and include in Use case with example.	07
