Seat No: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – II • EXAMINATION – SUMMER 2018

Subject Code: 3620004   **Date: 25-May-2018**

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)**	Answer in short	**07**
		1) What is Class?	
		2) What is stereotype?	
		3) Define term : note.	
		4) What is a model?	
		5) What is sequence diagram?	
		6) What is tagged value?	
		7) Define term : Association class	
	(b)	Discuss in brief principles of Modeling?	**07**
Q.2	**(a)**	Explain in brief Relationships and also explain types of Relationships with example.	**07**
	(b)	Explain Behavioral diagrams available in UML.	**07**
		OR	
	(b)	Define Use Case Diagram. Explain Generalization, extends and include in Use case with example.	**07**
Q.3	**(a)**	Define Packages. Explain Naming, Owned Elements, Importing exporting and Generalization concept of Packages.	**07**
	(b)	Define Instance and Explain Object Diagram with example.	**07**
		OR	
Q.3	**(a)**	Explain Multiplicity, Attributes and Operations of Classes in detail.	**07**
	(b)	Define Interface. What is the use of interface and explain the relationship between class and interface.	**07**
Q.4	**(a)**	What are classifiers? Explain in brief different kind of classifiers?	**07**
	(b)	Define Class Diagram and draw class diagram for online shopping System	**07**
		OR	
Q.4	**(a)**	Define Activity Diagram. Explain Forking, joining and Swimlanes in Activity Diagram with example.	**07**
	(b)	Draw Use Case and Activity Diagram for website which cunduct online test for entrence exam CMAT.	**07**
Q.5	**(a)**	What do you mean by Patterns and Frameworks? Explain giving proper example?	**07**
	(b)	What is component diagram? Draw a component diagram of application which uses source files, header file, database, tables, dll file.	**07**
		OR	
Q.5	**(a)**	What do you mean by Collaborations? Explain Collaborations with example?	**07**
	(b)	What is deployment diagram? Draw a deployment diagram of any client server architecture application.	**07**

****