GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER–II EXAMINATION – WINTER 2020

Subject Code:3620004   **Date:08/02/2021**
Subject Name:Object-Oriented Unified Modelling
Time:10.30 AM TO 12.30 PM   **Total Marks: 56**
Instructions:
1. **Attempt any FOUR questions out of EIGHT questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	(1) Discuss Responsibilities.	**03**
		(2) Explain simple and qualified names.	**02**
		(3) Explain tagged values.	**02**
	(b)	(1) Discuss Dependencies.	**03**
		(2) Discuss constraints.	**02**
		(3) Explain use case and actor.	**02**
Q.2	**(a)**	For library management system, design any three classes with attributes and operations in detail. Justify your choice of class, attribute and operation.	**07**
	(b)	Discuss principles of modeling.	**07**
Q.3	**(a)**	Explain forking and joining with example.	**07**
	(b)	Explain structural things in UML models.	**07**
Q.4	**(a)**	Discuss links and connectors.	**07**
	(b)	Discuss modeling of physical database.	**07**
Q.5	**(a)**	Explain class, attribute and operation with example and diagram.	**07**
	(b)	Discuss modeling of reactive objects.	**07**
Q.6	**(a)**	Write short note on Generalization.	**07**
	(b)	Explain time and change events.	**07**
Q.7	**(a)**	Discuss abstract, leaf and polymorphic elements.	**07**
	(b)	Explain multiplicity and aggregation.	**07**
Q.8	**(a)**	Write short note on components and interfaces.	**07**
	(b)	Discuss sequence diagram.	**07**

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