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## GUJARAT TECHNOLOGICAL UNIVERSITY MCA INTEGRATED - SEMESTER- IV • EXAMINATION - WINTER 2015

Subject Code:4440604 Date: 08/12/2015

Subject Name: UML & Object Oriented Modeling

Time: 02:30 PM to 05:00 PM Total Marks: 70

## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1		Do as Directed.  1)Symbol is used to show Annotation (Note).  2)Type of relationship is used between use case and collaboration.  3) The is a tall, thin rectangle that shows the period of time during which an object is performing an action  4) State Some Rules of UML  5) Structural things represent Dynamic view of a system. Justify  6) List out all types of Diagrams in UML.  7) What are the uses of Use case Diagram?  Define Following terms.  1. Interaction  2. UML  3. Aggregation  4. Classifiers  5. Change Event  6. Composition  7. Model	07
Q.2	(a) (b)	Explain Things in Building Block of UML. Explain state chart diagram with example OR	07 07
	(b)	Explain term Relationship and also explain types of Relationship in brief.	07
Q.3	(a)	<ul> <li>Explain Following terms</li> <li>a) Visibility of Attributes and methods in Class</li> <li>b) Multiplicity</li> <li>c) Generalization</li> </ul>	03 02 02
	(b)	a) Explain object Diagram with example.     b) Explain component Diagram with example     OR	04 03
Q.3	(a)		04
	(b)	b) Forward and backward Engineering Explain Forking, Joining and swim lanes concepts in Activity Diagram	03 07
Q.4		Define Instance and explain Names, Operations and State concept of Instances. What is interface? Which symbol is used for interface and also show the	07 07

		relationship between interface and class with example.	
Q.4	(a) (b)	Define package and explain import and export concept in package with example.  What is Class? Explain the rules n regulations for declaring attributes and methods in along in LIM.	04 03 07
Q.5	(a) (b)	methods in class in UML.  Explain Common Mechanisms in Unified Modeling Language.  Draw Activity, Collaboration and Sequence Diagram for Railway reservation for Railway Reservation System.	07 07
Q.5	(a) (b)	OR Explain Sequence and collaboration Diagram with example Draw Class and Use Case diagram for online pizza ordering system. (Use appropriate assumptions)	07 07

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