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	GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER- I (OLD course)• EXAMINATION – SUMMER 2015 Subject Code: 712303 Date: 13/05/2015			
Su	bject	t Name: Object Oriented Methodology		
			Fotal Marks: 70	
Ins	2.	ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	What is class Diagram? Explain Abstract Classes in details. Explain properties of Association Ends with example.	07 07	
Q.2	(a)	What is class? What is object? Explain relationship between the Context to object oriented methodology and programming with		
	(b)	Differentiate -is-aø and -has-aø relationship with suitable exampl OR		
	(b)	Compare Class and State Diagram.	07	
Q.3	(a)	Explain basic form of Singleton design pattern. How multi threa handled in singleton?	ding can be 07	
	(b)	What is Adapter Pattern? Explain with Example. OR	07	
Q.3	(a) (b)	Write and explain The Liskov substitution principle. Explain this and Super keyword in java with example.	07 07	
Q.4	(a) (b)	Explain Cloneable interface. Explain Java RMI in brief.	07 07	
		OR		
Q.4	(a) (b)	Explain Runnable interface. Explain Cohesion and Coupling with example.	07 07	
Q.5	(a) (b)	Explain MVC design pattern. Also list advantages of this pattern What is Refactoring? Explain Extract Method rule. OR	n. 07 07	
Q.5	(a) (b)	Explain exception handling in Java. How is it done? Explain Iterator design pattern with example.	07 07	
