GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – II • EXAMINATION – SUMMER • 2014Subject code: 1720105Date: 20-06-2014Subject Name: Object Oriented Methodology & Design Time: 02:30 pm - 05:00 pmTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.			
	3.	Figures to the right indicate full marks.	
Q.1		Answer the following questions.	1
	(a) (b) (c) (d)	What is Association? Explain with an example.What is an UML Activity Diagram? What are the uses of an Activity diagram?Define a) Actors, b) Scenarios, and c) Use cases.Differentiate between pattern and frame work.	
Q.2	(a) (b)	Indentify Classes and draw class diagram of railway reservation system. Describe State, Behavior and Identity with respect to an object with relevant example.	
	(b)	OR Draw Usecase, state and sequence diagram for multiplex booking system.	(
Q.3	(a) (b)	What is refactoring ? Explain in detail with example. What is pattern ? What are the characteristics of good pattern? List the component that decide template of pattern. OR	(
Q.3	(a) (b)	Explain Façade pattern with suitable example. Show the Basic model of MVC architecture and also an alternate view of MVC architecture and implement the Observable and Observer pattern using MVC.	
Q.4	(a)	Explain factory pattern in detail with suitable example. State the difference	
	(b)	between factory and abstract-factory pattern. Prepare a state transition diagram washing machine using observer pattern. OR	
Q.4	(a) (b)	What is GRASP ? Explain GRASP principles. Explain Singleton pattern with a diagram.	
Q.5	(a)	Explain Creator Pattern with an example.	
	(b)	What are deployment diagrams? What are the basic elements of deployment diagrams. Draw deployment diagram with suitable example. OR	
Q.5	(a)	Briefly explain a)Attribute visibility b)Parameter Visibility c)Local visibility d)Global visibility	
	(b)	Explain Adapter pattern with a diagram.	
