	Seat	No.: Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
	a 1	MCA - SEMESTER-V • EXAMINATION – SUMMER • 2014	
		oject Code: 650001 Date: 23-05-2014 oject Name: Software Engineering	
		ne: 10:30 am - 01:00 pm Total Marks: 70	
		ructions:	
		1. Attempt all questions.	
		 Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1.	(a)	What do you mean by "Software Engineering". Write a brief note on Prescriptive Process Models.	06
	(b)	Explain the following terms in brief:	04
		(i) Phases of Extreme Programming (XP) (ii) Scrum	
	(c)	Distinguish between the following: (i) Cohesion and Coupling (ii) Architectural Style and Architectural Pattern	04
Q.2	(a)	What do you mean by Eliciting Requirements? What is its role in building analysis	07
	<i>a</i> >	model? How quality of requirements can be helpful in model building?	
	(b)	State and explain the golden rules that form the basis of interface design.	07
		OR	
	(b)	Write and explain the guiding principles of Validation and Testing.	07
Q.3	(a)	Discuss Requirements Modeling for WebApps.	07
	(b)	Explain Data abstraction and procedure abstraction.	07
		OR	
Q.3	(a)	Discuss Functional independence and Information hiding	07
	(b)	Explain OO Design Concepts with suitable examples.	07
Q.4.	(a)	Write a short note on Formal Technical Review (FTR).	07
	(b)	Explain Equivalence Partitioning and Boundary Value Analysis of Black-Box	07
		Testing.	
0.4	(a)	OR Write a brief note on a Architectural Styles	07
Q.4.	(a)	Write a brief note on : Architectural Styles.	07
	(b)	Discuss following Principles: (i) Open Closed Principle (OCP) (ii) Common Payer Principle (CPP)	07
Q.5.	(a)	(i) Open-Closed Principle (OCP) (ii) Common Reuse Principle (CRP) Discuss Test Strategies for Conventional Software.	07
	(b)	What is Basis Path Testing? Explain Flow Graph Notation and Independent Program Path.	07
		OR	
Q.5.	(a)	Explain Unit Testing, Integration Testing and Validation Testing in an OO Context.	07
			07
	(b)	Discuss Metrics for Requirements Model and Metrics for Design Model.	U/
