Seat No.: Enrolment No.

Subject Code: 650001

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – SUMMER 2013

Date: 10-05-2013

Tir	ne: 0	Name: Software Engineering 2.30 pm - 05.00 pm Total Marks: 70	
Inst	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1		lain the following terms :	14
V.1	(a)	Abstraction	17
	(b)	Open-Closed Principle	
	` ′	Agile Process	
	` '	Formal Technical Review	
	` /	Measures and Metrics	
	(f)	Time-Line Chart	
	(g)	MVC Architecture	
Q.2	(a)	Explain the waterfall process model in detail. Why does a waterfall model fail at times?	07
	(b)	What is white-box testing? Explain control structure testing in detail. OR	07
	(b)	Describe the various architectural pattern domains.	07
Q.3	Write short notes on the following:		
	(a)	Adaptive Software Development	14
		Quality Function Deployment	
		Debugging Process	
	(d)	Deployment Principles	
		OR	
Q.3	(a)	Explain navigation testing for Web applications.	07
	(b)	Explain how the requirements model can be transformed into design model.	07
Q.4	(a)	Explain the various design notations at component level for designing traditional software.	07
	(b)	State and explain the three golden rules that form the basis of interface design. OR	07
Q.4	(a)	Explain the user interface design evaluation cycle giving a suitable example.	07
	(b)	Describe the set of goals that are applicable to WebApp design.	07
Q.5	Distinguish between the following:		
	(a)	Top-Down and Bottom-Up Integration Testing	
	(b)	Cohesion and Coupling	
	(c)	Alpha Testing and Beta Testing	
	(d)	Verification and Validation	
~ -	()	OR	^ -
Q.5	(a)	Explain the various taxonomy of architectural styles.	07
	(b)	Explain the software engineering resources required for software development.	07
