Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## MCA SEM-V Examination- Dec.-2011

	•	code: 650001 Date: 12/12/2011 Name: Software Engineering (SE)	
	•	0.30 am-01.00 pm Total marks: 70	
1 2	2. Ma	ns: Tempt all questions. Take suitable assumptions wherever necessary. Tyures to the right indicate full marks.	
Q.1	(a) (b) (c)	Explain the following terms: Scrum, Archetypes, Modularity Write a short note on Formal Technical Review (FTR). What do you understand by evolutionary process models. Explain Spiral model in detail.	06 04 04
Q.2	(a) (b)	State and explain the three golden rules that form the basis of interface design. Explain the server-side and client-side issues for configuration and security testing for Web applications.	07 07
	(b)	OR What is black-box testing? State the various testing techniques applied in	07
Q.3	(a)	black-box testing. Explain any one in detail.  Explain the various steps involved in computing earned value and also explain the interpretation of the progress indicators.	07
	(b)	the interpretation of the progress indicators.  What is requirement engineering? Describe the seven distinct tasks encompassed in requirement engineering. Also, explain Quality Function Deployment.	07
Q.3	(a)	<b>OR</b> What is an architectural style? Explain the categories of architectural styles in detail.	07
	<b>(b)</b>	What is design patterns and explain various kinds of patterns in detail?	07
Q.4	(a) (b)	Explain in detail component-level design for traditional software components. What do you understand by empirical estimation models? Explain COCOMO II model giving suitable example.  OR	07 07
Q.4	(a) (b)	Explain function-point metric for requirement modeling. Explain aesthetic design and content architecture of content design for WebApp design.	07 07
Q.5	(a)	What is integration testing? Explain in detail top-down and bottom-up integration testing.	07
	(b)	Distinguish between the following:  a. Cohesion and Coupling  b. Architectural Style and Architectural Pattern  OR	07
Q.5	(a) (b)	Explain object-oriented testing strategies.  Distinguish between the following:  a. Navigation Syntax and Navigation Semantics b. Verification and Validation  ***********************************	07 07

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