Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER–V • EXAMINATION – SUMMER • 2015

Subject Code: 650001   **Date: 01-05-2015**

Subject Name: Software Engineering

Time: 02:30 pm to 05:00 pm   **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain the following terms : Extreme Programming, Archetypes, Modularity	**06**
	(b)	Write a short note on Formal Technical Review (FTR).	**04**
	(c)	Explain Spiral model in detail.	**04**
Q.2	**(a)**	Explain the three golden rules that form the basis of interface design.	**07**
	(b)	Write short note on issues for configuration and security testing for Web applications.	**07**

OR

	(b)	Differentiate between Black Box Testing and White Box Testing with suitable Example.	**07**
Q.3	**(a)**	Explain the various steps involved in computing earned value and also explain the interpretation of the progress indicators.	**07**
	(b)	Describe the seven distinct tasks encompassed in requirement engineering.	**07**

OR

Q.3	**(a)**	Explain architectural style and its various categories in detail.	**07**
	(b)	Explain various kinds of design patterns in detail.	**07**
Q.4	**(a)**	Explain in detail component-level design for traditional software components.	**07**
	(b)	What do you mean by empirical estimation models? Explain COCOMO model with suitable example.	**07**

OR

Q.4	**(a)**	Write a short note on Web Design E Pyramid for Web Apps.	**07**
	(b)	Explain aesthetic design and content architecture of content design for WebApp design.	**07**
Q.5	**(a)**	What is integration testing? Explain in detail top-down and bottom-up Integration testing.	**07**
	(b)	Write short notes on the following: i. Cohesion V/S Coupling ii. Architectural Style V/S Architectural Pattern	**07**

OR

Q.5	**(a)**	Write short note on principles of process and practice in Software Engineering	**07**
	(b)	Compare the following with suitable example: a. Navigation Syntax and Navigation Semantics b. Verification and Validation	**07**

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