

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**MCA - SEMESTER-V • EXAMINATION – WINTER • 2014**

**Subject Code: 650001**

**Date: 28-11-2014**

**Subject Name: Software Engineering**

**Time: 10:30 am - 01:00 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) What is Extreme Programming? Explain XP process in detail **07**  
(b) What is a test strategy? Explain Conventional software in detail. **07**
- Q.2** (a) Explain Pattern-based software design in detail **07**  
(b) Write a note on  
(1) Adaptive software development **04**  
(2) Scrum **03**
- OR**
- (b) What is requirement model? Discuss flow oriented model in detail. **07**
- Q.3** (a) What is coupling? Discuss Various categories of coupling **07**  
(b) Write a note on  
(1) Spiral Model **04**  
(2) Prototype Model **03**
- OR**
- Q.3** (a) Explain golden rules for interface design **07**  
(b) Write a note on  
(1) Formal Technical Review **04**  
(2) Modularity **03**
- Q.4** (a) What is WebApp design quality? Discuss design goal in detail. **07**  
(b) Write a note on  
(1) Validation Testing **04**  
(2) System Testing **03**
- OR**
- Q.4** (a) Explain Architecture style in detail **07**  
(b) What is process? Discuss Principle that guide process **07**
- Q.5** (a) What is product metrics? Discuss function based metrics in detail **07**  
(b) What is software project estimation? Discuss Empirical Estimation Models **07**
- OR**
- Q.5** (a) What is debugging? Explain art of debugging **07**  
(b) What is white-box testing? Discuss basis path testing **07**

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