

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER- V EXAMINATION – SUMMER - 2017**

**Subject Code:2650001**

**Date:30/05/2017**

**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) What is process? Explain spiral model in detail. **07**  
(b) (1) Differentiate cohesion v/s coupling. **04**  
(2) Write a note on system testing. **03**
- Q.2** (a) Explain transform mapping in detail. **07**  
(b) Explain golden rules for interface design. **07**
- OR**
- (b) Discuss various categories of user interface design pattern. **07**
- Q.3** (a) What is extreme programming? Explain XP process in detail. **07**  
(b) Explain component level design patterns with example. **07**
- OR**
- Q.3** (a) What is framework activity? Discuss principle that guides process. **07**  
(b) Write a note on modularity with diagram. **07**
- Q.4** (a) What is black-box testing? Explain in detail. **07**  
(b) Define archetype? Briefly describe different architectural styles. **07**
- OR**
- Q.4** (a) What is webApp testing? Discuss content testing in detail. **07**  
(b) Explain pattern-based software design in detail **07**
- Q.5** (a) Write a note on (1) formal technical review (2) time line chart. **07**  
(b) What do you understand by empirical estimation models? Explain COCOMO-II model with suitable example. **07**
- OR**
- Q.5** (a) Explain function-point metric for requirement modeling. **07**  
(b) Write a note on (1) W5HH principle (2) validation testing **07**

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