

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– V EXAMINATION – WINTER - 2016

Subject Code: 2650001

Date: 17/11/ 2016

Subject Name: Software Engineering

Time: 10:30 am To 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)** Explain the following terms: **07**
- a) Iteration
 - b) Scrum Meeting
 - c) Retrospectives
 - d) Refactoring
 - e) Modularity
 - f) Quality Function Deployment
 - g) Cyclomatic Complexity
- (b)** Explain: Agile Principles. **07**
- Q.2 (a)** Explain: Glass Box Testing and how it is different from black box testing. **07**
- (b)** Explain: Five Generic Process Framework Activities **07**
- OR**
- (b)** Explain: Design Concepts. How it is useful in software development. **07**
- Q.3 (a)** Explain: Principles that Guide Practice **07**
- (b)** Explain: Validation Principles and Deployment Principles. **07**
- OR**
- Q.3 (a)** Explain: Principles that Guide Process **07**
- (b)** Explain the term Software Engineering and Explain SDLC. **07**
- Q.4 (a)** Explain: What is Architecture Style. How Data Centered Architecture is different from Data Flow Architecture. **07**
- (b)** Explain: What is coupling and types of coupling. **07**
- OR**
- Q.4 (a)** Explain: Golden Rules of User Interface. **07**
- (b)** Explain the following. **07**
- a) SoC
 - b) Common Design Mistakes
 - c) Aesthetic Design
- Q.5 (a)** Explain: What is unit testing. Advantages of Unit Testing. Difference between Driver and Stub. **07**
- (b)** Write a Short Note on System Testing. **07**
- OR**
- Q.5 (a)** Explain the following terms: **07**
- a) Cause Elimination.
 - b) Calculate Cyclomatic Complexity for 5 Nodes and 4 Edges. Also Calculate V(G) where Predicate nodes are 3.
- (b)** Difference between Alpha Testing and Beta Testing **07**
