

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA SEMESTER—V –EXAMINATION –SUMMER-2016

Subject code: 2650001

Date: 04/05/2016

Subject Name: Software Engineering

Time: 10:30 AM to 01:00

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 or define the following terms: **07**
- | | |
|--------------------------------|-----------------------|
| (i) Software engineering | (ii) Software process |
| (iii) Stakeholder | (iv) Agility |
| (v) Risk mitigation | (vi) View point |
| (vii) Equivalence partitioning | |
- (b)** How the Process Model differ from one another? Write out the reasons for the Failure of Water Fall Model? **07**
- Q.2 (a)** Explain the following agile process models: **07**
- | |
|-------------------------|
| (i) Extreme programming |
| (ii) Scrum |
- (b)** Explain the requirement engineering task in detail. **07**
- OR**
- (b)** Explain the requirement analysis for WebApps. **07**
- Q.3 (a)** Explain the design concepts in detail. **07**
- (b)** What is a component? Explain three important views of what a component is? **07**
- OR**
- Q.3 (a)** Explain the different architectural styles and patterns. **07**
- (b)** Explain the content testing for WebApps. **07**
- Q.4 (a)** Describe the golden rules for the user interface design. **07**
- (b)** Explain Equivalence Class Partitioning and Boundary value analysis. Compare the two. **07**
- OR**
- Q.4 (a)** Write a short note on: WebApps Design Patterns. **07**
- (b)** Define software testing. Explain various level of testing. **07**

- Q.5 (a)** What do you mean by software project management? Explain in brief about the 4P's in software project management. **07**
- (b)** What is the difference between module coupling and module collection? List and explain the different types of coupling and cohesion. **07**

OR

- Q.5 (a)** Explain COCOMO model. **07**
- (b)** What is risk? Is it economical to do risk management? What is the effect of this activity on the overall cost of the project? How the risk can be assessed and controlled? **07**
