

Seat No.: _____

Enrolment No. _____

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

Subject Code: 650001

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)** Answer the following questions. **07**
- (1) What do you mean by Software Engineering?
 - (2) List out five basic framework activities of software development.
 - (3) Define term : Module
 - (4) What is Software Architecture?
 - (5) What is Cohesion?
 - (6) List out few typical user interface design errors.
 - (7) What do you mean by testing?
- (b)** Explain the waterfall process model in detail with advantages & disadvantages. **07**
- Q.2 (a)** List out different agile process model and explain Scrum model in details. **07**
- (b)** Explain different principles of communication framework activity of software development process. **07**
- OR**
- (b)** Explain different distinct tasks for requirement engineering. **07**
- Q.3 (a)** List the fundamental software design concepts and describe any five in details. **07**
- (b)** What do you mean by Architectural Style? List out different taxonomy of it and explain any two in details. **07**
- OR**
- Q.3 (a)** Explain the different design notations at component level for designing traditional software. **07**
- (b)** What is an interface? Explain three golden rules for user interface design in details. **07**
- Q.4 (a)** Describe the set of goals that are applicable to WebApp design. **07**
- (b)** What do you mean by defect? Explain Formal Technical Review in details. **07**
- OR**
- Q.4 (a)** Explain different types of System testing in details. **07**
- (b)** Explain white box testing with its types. **07**
- Q.5 (a)** Explain Navigation testing for WebApps. **07**
- (b)** Briefly discuss the metrics for object oriented design. **07**
- OR**
- Q.5 (a)** List out different project estimation techniques and discuss any two in details. **07**
- (b)** What is Project scheduling? Explain its principles. **07**
