

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VI (NEW).EXAMINATION – WINTER 2016

Subject Code: 2160701

Date: 22/10/2016

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)** What is Software Engineering? Explain Software Engineering: A Layered Technology. **07**
- (b)** Explain Agile Development in detail. **07**
- Q.2 (a)** What is Software Measurement? Explain Software metrics used for software cost estimation. **07**
- (b)** Compare Prototype Model and RAD Model. **07**
- OR**
- (b)** Explain Spiral Model in detail. **07**
- Q.3 (a)** Explain project scheduling process. Explain Gantt Chart in detail. **07**
- (b)** Explain the importance of Software Quality Assurance. Also explain different CMM levels. **07**
- OR**
- Q.3 (a)** What is Software Testing? What is the role of a Software Tester? Compare: Black Box Testing and White Box Testing. **07**
- (b)** Write a short note on Requirement Engineering. **07**
- Q.4 (a)** Write a short note on Component-Based Software Engineering. **07**
- (b)** What is User Interface? Explain the design rules for UI. **07**
- OR**
- Q.4 (a)** Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules. **07**
- (b)** Write a short note on Software Configuration Management. **07**
- Q.5 (a)** Write a short note on Reverse Engineering **07**
- (b)** Explain Software as a Service (SaaS). Give its applications. **07**
- OR**
- Q.5 (a)** Explain CASE tools and its use in Software Engineering. **07**
- (b)** What is Risk Management? Explain RMMM plan. **07**
