

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**ME - SEMESTER- III • EXAMINATION – SUMMER • 2014**

**Subject Code: 730104****Date: 05-06-2014****Subject Name: Software Engineering Methodology****Time: 02:30 pm - 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 the overall strategy for software testing? **07**  
(b) Differentiate between Verification and Validation. **07**
- Q.2** (a) Explain the notion of coupling and cohesion with example. **07**  
(b) What is SQA? Compare QC vs QA. **07**
- OR**
- (b) What is the purpose of Software quality Assurance? Why should the quality Assurance organization be independent of Development organization? **07**
- Q.3** (a) Define the term project and project management. Discuss in detail the functions and activities of project management. **07**  
(b) Explain any Software project estimation technique with example. **07**
- OR**
- Q.3** (a) What is SCM? Explain SCM Process in detail. **07**  
(b) Explain in detail the various Software Complexity Measures and their need? **07**
- Q.4** (a) Describe the testing process for WebApp. **07**  
(b) What do you mean by estimation and scheduling? Explain in detail the various Cost estimation models used in Software Engineering. **07**
- OR**
- Q.4** (a) What is RMMM plan? And also show the difference between known risks and predictable risks? Which are the risk not consider as a part of RMMM plan in Software development? **07**  
(b) Explain the process of User interface design? Also list the guidelines for Good User interface. **07**
- Q.5** (a) Describe role of four P's for effective software project management. **07**  
(b) Differentiate between Software Quality and Reliability. **07**
- OR**
- Q.5** (a) Write short notes on Clean room software engineering. **07**  
(b) What is CBSE? Describe Software Reengineering. **07**

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