

Roll No

MTCF - 301(A)
M.E/M.Tech., III Semester
Examination, June 2016
Secure Software Engineering
Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) What is Software Engineering? Discuss principles of Software Engineering.
b) Discuss in brief all steps necessary for an effective requirement analysis.
2. a) What are different software design approaches in Software Engineering? What do you mean by Good software design?
b) Discuss any two methods for evaluating costs and benefits with example.
3. a) What is the difference between functional and structural testing? Explain any two functional testing technique.
b) Distinguish between error, fault and failure. Which of these conditions is detected by testing?
4. a) Explain about software and hardware reliability.
b) Write note on operational profile implementation.

5. a) Explain how to Setting system failure intensity objectives.
b) Explain the user needs for reliability and availability.
6. a) Explain model based security engineering with UML.
b) Write note on tracking reliability growth in testing.
7. a) Explain UML diagrams for security requirement.
b) Write note on important security opportunities.
8. Write short notes on any two:
 - a) Fault Tolerance
 - b) User Interface design
 - c) Exception handling
