

**M.Tech. 3rd Semester**  
**Examination, December-2018**  
**SOFTWARE QUALITY ASSURANCE**  
**ELECTIVE-III**  
**Paper-MTIT-707 A**

*Time allowed : 3 hours] [Maximum marks : 100*

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

1. What is Software quality assurance? What are SQA activities? What are software project life cycle components? 20
2. (a) What is software testing? How we can generate various tests from requirement? 10  
(b) Explain minimization and prioritization for regression testing. 10
3. (a) What are Software Testing Strategies? Why is white-box testing complementary to Black-box testing? Prove it with example. 10  
(b) What are different types of integration testing methods that can be used for testing of large software product? 10
4. Write a short note on following:  
(a) Configuration Management. 7  
(b) Documentation Control 6

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- (c) Software Quality Metrics 7
  5. (a) How quality management standards plays an important role in SQA? Explain. 10  
(b) How the process of project is controlled with the help of SQA? 10
  6. Explain the following: 20  
(a) Performance Testing  
(b) Regression Testing  
(c) Internationalization Testing  
(d) Usability Testing
  7. (a) What are case tools? How it effects to software quality? 10  
(b) What are different computerized tools for software progress control? 10
  8. Write a short note on 20  
(a) Software configuration management audits.  
(b) Implementation of Software Quality Metrics.

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