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## MSE-202

M.E./M.Tech., II Semester

Examination, June 2016

### Software Quality Assurance

Time : Three Hours

Maximum Marks : 70

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

1. a) What are the quality standard in software industry? Explain CMMI and PCMM.  
b) Explain steps to develop and implement a Software Quality Assurance Plan.
2. a) What is SQA group? Explain components of Software Quality Assurance.  
b) Compare ISO 9000 model and CMM model in detail.
3. a) What are the Defects Prevention Techniques? Explain Education and training in detail.  
b) Define software metrics. What are various categories of software metrics? Discuss with the help of examples.

4. a) Explain the Metrics for Software Maintenance in detail.  
b) Explain process and product metrics in detail.
5. a) What is Software Testing? Explain the types of testing.  
b) What is test plan? Describe the test plan with suitable diagram.
6. a) Illustrate the relation between defect repository and test design. <http://www.rgpvonline.com>  
b) Explain about CASE tools.
7. a) What are the similarities and differences between decision trees and tree-based models? Explain in detail.  
b) Among the existing SRGMs and IDRM, the simplest models are typically the most commonly used ones. Explain why.
8. Write short notes on any three:
  - a) Malcolm Baldrige
  - b) Test Automation
  - c) QA monitoring
  - d) SRGMs
  - e) System testing

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