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Roll No

MSE-202**M.E./M.Tech., II Semester**

Examination, December 2015

Software Quality Assurance**Time : Three Hours****Maximum Marks : 70**

- Note:** i) Attempt any five questions. All questions carry equal marks.
ii) Assume Data/Value if required.

1. a) Explain the quality improvement approach through statistical analysis. 7
b) Differentiate between quality control and quality assurance. 7
2. a) Explain specific goals of quantitatively managed level of CMMI. 7
b) Write basic principles of ISO. 7
3. a) Define quality assurance. What are the characteristics of good quality assurance? 7
b) What are the characteristics of risks? How can risks be identified? 7

4. a) Explain how software quality metrics are categorized. 7
b) Differentiate between product measures and process measures. 7
5. a) What are the various types of functional testing techniques? Discuss any one with the help of an example. 7
b) How is data flow testing performed? Is it possible to design data flow test cases manually? Justify your answer. 7
6. a) Discuss about quantifiable quality improvement. 7
b) Explain models for quality assessment. 7
7. a) Differentiate between product measures and process measures. 7
b) Explain about software reliability growth model. 7
8. Write short note on 14
i) 6 sigma
ii) Software quality indicators
iii) Web Testing
iv) TBRMs
