Total No. of Questions :8]   [Total No. of Printed Pages :2

Roll No ....

MSE-202

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

Examination, December 2016

Software Quality Assurance

Time : Three Hours

Maximum Marks : 70

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

1. a) Explain the requirements needed by ISO 9000 quality system standard for a software organization.   7
   b) Describe about capability maturity model.   7

2. a) What are the various categories of errors suggested for defect prevention analysis?   7
   b) What are the characteristics of risks? How can risk be identified?   7

3. a) Define quality assurance. What are the characteristics of good quality assurance?   7
   b) Differentiate between product measures and process measures.   7

4. a) Explain how software quality assurance process differ from software development process? Also explain each phases of software quality program development.   7
   b) Differentiate between software, measure, software metric, and software measurement with the help of examples.   7

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5. a) What are the main objectives of software quality metrics? What are the limitations of software quality metrics?   7
   b) What is HCL testing? Explain HCL requirements and design process.   7

6. a) In n-tier architecture what are the factors should be considered for testing what types of web testing security problem.   7
   b) Compare functional Vs structural testing list out and explain software testing objectives.   7

7. a) Explain statistical analysis technique.   7
   b) What do you mean by software reliability? Identify the reliability metrics which can be used to quality the reliability of software product.   7

8. Write short note on   14
   a) TBRM
   b) Fault tolerance
   c) Test Automation
   d) 6 Sigma

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