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Question Paper Code : 52358

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Eighth Semester

Computer Science Engineering

CS2055--SOFTWARE QUALITY ASSURANCE

(Regulations 2008)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART - A

(10×2=20 Marks)

1. What are the goals of Software Quality ?
2. List the desirable characteristics of 'software product'.
3. Differentiate Review Vs. Audit.
4. List the activities done during fault removal in defect prevention.
5. Differentiate Measure and Metric.
6. What is MTTC ?
7. What is defined in the problem reporting and corrective action sections of SQA plan ?
8. Compare Inspection and Walkthrough.
9. Write the purpose of assessment of reports.
10. List the levels of CMM.

PART - B

(5×16=80 Marks)

11. a) Prepare SQA plan and explain each of its sections. (16)

(OR)

- b) Explain the roles and responsibilities of SQA people. (16)



12. a) How Software Quality is managed and list all the principles behind it? (16)
(OR)
b) Why defect prevention is a must for Software Quality? Examine the principles and steps involved in Software Quality Assurance. (16)
13. a) What is Total Quality Management? Explain the principles of Software Total Quality Management. (16)
(OR)
b) How SQA metrics helps in achieving Software Quality? Explain any four metrics to analyze the quality. (16)
14. a) Elaborate the activities performed during Software Quality Program with all its elements. (16)
(OR)
b) Assume that, you are asked to prepare a SQA plan for a Software Project of an organization. Examine the contents of a SQA plan with respect to your own software product development and explain the use of each of them. (16)
15. a) Examine the role of SQA in Software Development Maturity in SEI CMM model. (16)
(OR)
b) Compare ISO 9000 with SEI CMMI. (16)
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