

**B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

00536

Term-End Examination

December, 2014

BICSE-015 : SOFTWARE QUALITY ENGINEERING

Time : 3 hours

Maximum Marks : 70

Note : Answer any **seven** questions. All questions carry equal marks.

1. (a) How do we calculate the rate of cost of quality and defect prevention ? Explain in detail. 5
(b) In what ways can you measure the defect rate and reliability ? Explain. 5
2. Explain the levels of measurement. 10
3. Define quality metrics. State different quality metrics in software quality assurance. 10
4. (a) State the “customer problems metrics” solutions. 5
(b) Explain the “customer satisfaction metrics”, with examples. 5

5. What are the various methods of metrics for software maintenance ? 10
6. Explain the Reliability Growth model. 10
7. What are the various methods in software quality planning ? 10
8. Write short notes on the following :
- (a) Major SQA activities 5
 - (b) Major SQA issues 5
9. (a) What is zero defect software ? Give one example. 5
- (b) Define quality management. What are the steps in it ? 5
10. Differentiate functional testing from structural testing. Give some examples. 10
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