

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

Term-End Examination

December, 2017

00960

BICSE-015 : SOFTWARE QUALITY ENGINEERING

Time : 3 hours

Maximum Marks : 70

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

1. What do you mean by Software Quality ? Explain defect density in detail. 10
2. Explain and differentiate between Process Quality and Product Quality. 10
3. What do you mean by Testing Tools ? Also explain the characteristics of modern testing tools. 10
4. Discuss the need for software assurance and describe the role of SQA manager in ensuring software quality. 10
5. Explain about various software metrics that play a role in measuring the quality of a software. 10

6. What is Software Testing ? How can one generate test cases in the test development process ? 10
7. What is Total Quality Management ? Discuss quality standards and quality process in detail. 10
8. What do you mean by Verification and Validation ? Explain the evolutionary nature of verification and validation. 10
9. What is Defect ? Explain the concept of zero defect software with a suitable example. 10
10. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Measurement and Inspection Process
 - (b) Software Quality Indicators
 - (c) Functional Testing
 - (d) Software Reliability Allocation Models
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