BICSE-015

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

Term-End Examination

June, 2015

00694

BICSE-015 : SOFTWARE QUALITY ENGINEERING

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt any **seven** questions. Each question carries equal marks.*

1. What do you understand by Software Quality ? What are the attributes of software quality ?   *10*

2. Differentiate among Defects, Faults and Failures, by using suitable examples. Also, briefly explain the term Defect Rate.   *10*

3. What do you understand by Software Reliability ? Also explain the term defect density in detail.   *10*

4. What are the various customer problem metrics ? How are they different from customer satisfaction metrics ?   *10*

5. Differentiate between Fix Response time and Fix Quality in detail.   *10*

6. Explain the Software Reliability Growth Models in detail. *10*

7. State and describe the Hierarchical Model of Software Quality Assessment. *10*

8. What do you understand by Software Quality Planning and Control ? Explain the quality improvement process. *10*

9. Write short notes on the following : *2×5=10*
   (a) Major SQA Issues
   (b) Quality Standards

10. What do you understand by Software Testing ? Explain the various types of testing in detail. *10*