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

Term-End Examination

00646   June, 2016

BICSE-015 : SOFTWARE QUALITY ENGINEERING

Time : 3 hours   *Maximum Marks : 70*

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

1. Define Software Quality. What are the software quality specifications ?   *10*

2. What is software review ? Explain the different types of software review.   *10*

3. What are the various methods of metrics for software maintenance ? Explain them in brief.   *10*

4. Explain the Reliability Growth Model with suitable examples.   *10*

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

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

7. Differentiate functional testing from structural testing with the help of suitable examples. *10*

8. What are the various methods in software quality planning ? *10*

9. State and describe the hierarchical model of software quality assessmment. *10*

10. Write short notes on any *two* of the following : *2×5=10*

   (a)   Quality Standard

   (b)   Software Quality Assurance Techniques

   (c)   Zero defect Software