B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

December, 2013

00591

BICSE-015 : SOFTWARE QUALITY ENGINEERING

Time : 3 hours   *Maximum Marks : 70*

Note :   (i)   *Answer **any seven** questions.*
          (ii) *All questions **carry equal marks.***

1. Define software quality. Explain the attributes   **10**
    and specifications of software quality.

2. Explain various, In process quality metrics with   **10**
    suitable examples.

3. What is the objective of Total quality management   **10**
    (TQM) ? Explain briefly about the various
    functions of TQM.

4. Explain the major activities and issues of software **10**
    quality Assurance.

5. Explain the following :
    (a) Functional Testing   **5**
    (b) Inspection Process   **5**

6.   What is meant by software reliability ? How the   **10**
     reliability models are classified ? Explain any one
     of them with neat sketch.

7.   Discuss the characteristics of Modern Testing   **10**
     Tools in detail.

8.   Explain the role of quality indicators in the   **10**
     evolution of software quality.

9.   Explain the various software quality assessment   **10**
     models with neat sketch.

10. Explain how software quality Assurance Process   **10**
     differ from software development process ? Also
     explain each phase of software quality program
     development.

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