Unit IV

7. (a) Why is it important for a software development organization to obtain ISO 9001 certification ? **8**

   (b) Can a program be correct and still not exhibit good quality ? Explain. **7**

8. List any five advantages of CASE tools. Describe the positive and negative effects of CASE tools on the quality of a software product. **15**

H-9

B. Tech. EXAMINATION, Dec. 2017

(Eighth Semester)

(B. Scheme) (Re-appear Only)

(CSE)

CSE-464-B

SOFTWARE STANDARDS AND QUALITY

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. Each question carries equal marks.

Unit I

1. Differentiate between software quality assurance and quality control. Discuss any *five* approaches for quality control. **15**

2. (a) Describe, how technical review process helps in improving the quality of a software product. **7**

   (b) Define zero defect software. Is it possible to deliver a zero defect software. **8**

Unit II

3. (a) Describe the importance of a good requirement elicitation process in ensuring the development of a good quality process. **9**

   (b) Describe *one* active defect removal approach and *one* passive defect removal approach. **6**

4. (a) List and describe any *two* approaches for performing regresion testing. **10**

   (b) Define software evaluation. How is it performed ? **5**

Unit III

5. Write a program is C language to print only real roots of a quadratic equation then draw the control flow graph of the program and compute the Cyclomatic complexity of the program using McAbe's method for measuring the complexity of a software unit. **15**

6. (a) Discuss the effects of compilation frequency of the unit on the quality of the unit. **8**

   (b) Discuss the strategy for implementation of corrective action. How a corrective action strategy should be documented. **7**