

Unit IV

7. Describe the six sigma strategy for software quality. **15**
8. Write an explain the guidelines specified in ISO/IEC 15504 for software quality management systems. **15**

No. of Printed Pages : 04

Roll No.

H-310

B. Tech. EXAMINATION, Dec. 2018

(Eighth Semester)

(B. Scheme) (Re-appear Only)

(IT)

IT464B

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.

M-H-310

4

20

(3-04/11)M-H-310

P.T.O.

Unit I

1. List the major software quality attributes. What are different activities to carried out during software quality assurance ? List any five responsibilities of a quality control auditor.

15

2. (a) Define software quality assurance. Describe any *two* SQA techniques. 7
(b) What are different activities covered under program review processes ? How they help in improving the quality of a software product ? 8

Unit II

3. What do you mean by Regression testing ? How is it performed ? Write an explain *three* methods to perform regression testing with relative advantages and disadvantages of each.

15

M-H-310

2

4. (a) Define defect characterization. How does it helps to improve the quality of a software product ? 10
(b) Describe one active defect removal approach. 5

Unit III

5. How the complexity of program unit may be evaluated ? Describe any *one* method for complexity evaluation. What is the effect of complexity on testability of a unit ? 15
6. (a) What is difference between error, bug and fault ? Illustrate with some example. 9
(b) Why is it important to provide proper documentation of the corrective plan ? How does it help the maintenance team at a later stage ? 6

(3-04/12)M-H-310

3

P.T.O.