Reg. No. : | | | | | | | | | | | | |

Question Paper Code : X60361

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020
Eighth Semester
Computer Science and Engineering
CS 2055/CS 803/10144 CSE 52 – SOFTWARE QUALITY ASSURANCE
(Regulations 2008/2010)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions

PART – A **(10×2=20 Marks)**

1. Mention the role of SQA.
2. Who are all SQA people ?
3. Differentiate defect and failure.
4. What do you mean by software portability ?
5. How do you define software quality ?
6. What do you mean by TQM ?
7. What is a quality goal ? Give an example.
8. What is the purpose of internal quality audit ?
9. Expand SEI and CMM.
10. Write two examples for software quality standards.

PART – B **(5×16=80 Marks)**

11. a) i) Explain briefly about the SQA functions of basic organizational frame work. **(10)**
    ii) Specify IEEE standards for SQA plan preparation. **(6)**

(OR)

b) i) Explain about what are the various tasks of SCM in detail. **(10)**
    ii) List out the main tasks of software change control. **(6)**

12. a) i) Explain how to manage the software quality in detail. **(8)**

ii) Explain the overall responsibilities of the top management for software quality. **(8)**

(OR)

b) i) Briefly explain the various techniques involved in defect prevention with an example. **(10)**

ii) Explain the various problems associated with different aspects of defects in SQ activities . **(6)**

13. a) Briefly discuss the different types of software quality metrics with an example. **(16)**

(OR)

b) Write note on :

i) TQM

ii) Quality Metric Analysis. **(16)**

14. a) i) Explain the importance of professional ethics in SQA programs. **(7)**

ii) Explain the SQA plan documentation structure in detail. **(9)**

(OR)

b) i) Give a brief note on the significance of selling the quality plan. **(6)**

ii) Explain the important Issues to be addressed in establishing quality goals. **(6)**

iii) What is quality goal methodology ? Explain. **(4)**

15. a) Explain the role of ISO 9000 towards SQA standardization and also compare ISO 9000 and CMM.

(OR)

b) Discuss the need for SQA standardization and explain the various levels of capability maturity model.

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