

L1B
10/12/14 FN

Reg. No. :

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Question Paper Code : 45865

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Elective

Software Engineering

XCS 021/10677 SW 801 — SOFTWARE QUALITY ASSURANCE

(Common to 5 Year M.Sc. Computer Technology)

(Regulation 2003/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is software quality?
2. List the various scope of the software quality program.
3. What is quality task and quality cost?
4. Define six sigma.
5. What is an agile team?
6. What is problem reporting?
7. What is the requirement of internal auditing?
8. What is meant by retention?
9. List out any two weakness in CMM level 1.
10. What is Earn Value Analysis?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss quality and productivity. Discuss quality is free.

Or

- (b) Discuss the following :

- (i) Establishing quality goals (8)
- (ii) SQA planning software. (8)

12. (a) Explain software quality assurance management in detail.

Or

(b) What is control? Explain application control and management control in detail.

13. (a) Explain and compare ISO process and CMM process.

Or

(b) Describe various types of risk in software project management in detail. How each risk is managed effectively?

14. (a) Explain the seven basic quality control tools in detail.

Or

(b) Explain various guidelines to conduct review process.

15. (a) Explain software process improvement and capability determination in detail.

Or

(b) Write short notes on following :

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| (i) ISO 9000 weakness | (5) |
| (ii) Types of accreditation | (5) |
| (iii) Training methods. | (6) |