C 1172

(Pages : 2)

SIXTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE EXAMINATION, APRIL 2016

IT 09 601—SOFTWARE QUALITY MANAGEMENT

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What do you understand from the term 'software quality' ?

2. What is six sigma ?

3. What do you mean by software inspection ?

4. Write about Malcolm Baldrige Award.

5. How does management's role influence in software defect prevention ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Write short notes on Quality Assurance Plan.

7. Brief about Business Process Reengineering.

8. Briefly explain configuration audit.

9. Explain in detail about the types of reviews.

10. What is the importance of quality motivation ?

11. Explain about process changes for defect prevention.

(4 × 5 = 20 marks)

Part C

12. (a) Explain in detail about Quality Function Deployment.

    Or

    (b) Discuss in detail about Total Quality Management.

13. (a) Discuss in detail about the automation tools for Software Configuration Management.

    Or

    (b) Explain in detail about the different phases in Software Configuration Management.

Turn over

14. (a) Write short notes on :

  (i) Benefits of Standards.

  (ii) CMM.

Or

  (b) Explain in detail about Inspection Training Models for Quality Assurance.

15. (a) Explain in detail about the following :

  (i) Test planning.

  (ii) Establishing a Software Quality Program.

Or

  (b) Explain in detail the framework for software process change.

(4 × 10 = 40 marks)