C 41295

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SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, MAY 2013

IT 09 601—SOFTWARE QUALITY MANAGEMENT

(2009 Admission onwards)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Define software Quality. What is it from user's point of view ?

2. What is an operational data ?

3. Differentiate between standards and guideline.

4. List seven types of software tests.

5. When do errors become life threatening ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Explain *five* assessment principles.

7. Write a note on design control.

8. Explain the standards development process.

9. Defect prevention not a new idea-Explain.

10. What are the main standards of ISO 9000 series ? Where do you make use of these standards in software development ? Explain any one standard briefly.

11. Explain about top down and bottom up integration in detail.

(4 × 5 = 20 marks)

Part C

12. (a) What are the factors to be considered before assessing a software process ? Discuss.

Or

    (b) Explain the goal and role of software quality assurance.

13. (a) Explain the basic configuration management functions.

Or

    (b) How does a change control board controls change in the design ? Explain.

Turn over

14. (a) Explain how inspection is conducted during development process.

    Or

    (b) Discuss the need for quality standard. Do they ensure adequate quality ? Explain Malcolm Bridge assessment approach.

15. (a) Explain the steps for software defect Prevention.

    Or

    (b) Explain the seven types of testing in detail.

                                                              (4 × 10 = 40 marks)