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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2013

INFORMATION TECHNOLOGY

Seventh Semester

IT 9401 SOFTWARE TESTING

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Explain the basic principles on which testing are based?
2. Why do we have defects in software? What are the effects of defects in the user?
3. What is meant by equivalence partitioning?
4. What is the difference between static and structural testing?
5. Why acceptance testing is done? What are the characteristics of acceptance testing?
6. Define the terms: alpha, beta and gamma testing.
7. What are the advantages of test planning?
8. What are the roles and responsibilities of test planning?
9. Differentiate between process and product metrics.
10. Explain defect density metrics.

Part – B (5 x 16 = 80 marks)

11. What is meant by defect? Classify the defect classes and illustrate it with suitable examples.
12. a) What is meant by cause-effect graphing? Explain with an example?
OR
b) What is meant by white box approach for test design? Explain in detail with example.
13. a) What is meant by regression testing? Explain in detail about how integration tests are planned and applied?
OR
b) Explain the levels of testing? Explain briefly the different levels of testing with suitable examples.

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14. a) What is the role and responsibilities of a software tester? Explain the role of test planning.

OR

- b) Explain in detail the organizational structures for testing teams. What are the skills required for a software specialist.

15. a) What is the role of automation in software testing? Explain briefly the components and architecture of automation.

OR

- b) What are test metrics? Explain briefly the test metrics with suitable examples.