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Question Paper Code : 91553

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Seventh Semester

Computer Science and Engineering

IT 2032/IT 702/10177 ITE 24/10144 CSE 15 – SOFTWARE TESTING

(Common to Information Technology)

(Regulation 2008/2010)

(Common to PTIT 2032/10144 CSE 15 – Software Testing for B.E. (Part-Time)
Fifth/Sixth Semester Computer Science and Engineering – Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define defects with an example.
2. Mention any two role of process in software quality.
3. How static testing is differing from structural testing?
4. What do you mean by code complexity testing?
5. Why levels of testing are preferred?
6. List out the various types of system testing.
7. Write the components of test plan.
8. Write any four skills are needed for test specialist.
9. Mention the various types of review.
10. What is the Scope of automation?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Write detail note on principles of software testing. (8)
(ii) Explain the role of tester in a software development organization. (8)
Or
(b) Explain in detail how developer/tester support to develop a defect repository. (16)

12. (a) Write note on the following with an example.
- (i) Smarter Tester
 - (ii) Random testing
 - (iii) Control graph
 - (iv) Boundary Value Analysis. (16)

Or

- (b) (i) Explain the test case design strategies in detail. (8)
- (ii) Compare and contrast between static testing and structural testing. (8)

13. (a) (i) Briefly explain the levels of testing with an example. (10)
- (ii) Explain how to test OO system in detail. (6)

Or

- (b) Explain types of testing in detail with suitable example. (16)

14. (a) (i) Explain issues caused by people and organization in software testing. (8)
- (ii) Briefly discuss the testing team in organizational structure. (8)

Or

- (b) Briefly discuss the various groups in Test plan and policy development with their role. (16)

15. (a) Briefly discuss the overview of software test automation with skill needed, scope and its Architecture. (16)

Or

- (b) (i) Explain the types reviews. (8)
- (ii) Discuss the components of review plans. (8)