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Question Paper Code : 41285

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Sixth/Seventh Semester

IT6004 – SOFTWARE TESTING

Common to : B.E. Computer Science and Engineering/B.Tech. Information
Technology
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. List out the levels of the testing maturity model.
2. Define Test Oracle.
3. What are the factors affecting less than 100% degree of coverage ?
4. Write the formula for cyclomatic complexity.
5. What is the advantage of Bottom up integration ?
6. Give the examples of security testing.
7. Define a Work Breakdown Structure (WBS).
8. What is the function of Test Item Transmittal Report or Locating Test Items ?
9. What are the goals of Reviewers ?
10. What is Walk Through ?

PART – B

(5×13=65 Marks)

11. a) Give overview of the Testing Maturity Model (TMM) and the test related activities that should be done for V-model architecture. (13)

(OR)

- b) Elaborate on the principles of software testing and summarize the tester role in software development organization. (13)



12. a) Demonstrate the various black box test cases using equivalence class partitioning and boundary value analysis to test a module for payroll system. (13)

(OR)

b) Explain about state transition testing. (13)

13. a) i) Write the importance of security testing and explain the consequences of security breaches, also write the various areas which has to be focused on during security testing. (7)

ii) State the need for integration testing in procedural code. (6)

(OR)

b) i) Explain about the unit test planning. (7)

ii) Explain about configuration testing and its objectives. (6)

14. a) Explain the components of test plan in detail. (13)

(OR)

b) i) List and explain the skills needed by a test specialist. (7)

ii) Name the reports of test results and the contents available in each test reports. (6)

15. a) Discuss the types of review. Explain various components of review plans. (13)

(OR)

b) Narrate about the metrics or parameters to be considered for evaluating the software quality. (13)

PART - C

(1×15=15 Marks)

16. a) Explain in detail processing and monitoring of the defects with defect repository.

(OR)

b) Explain the organizational structures for testing teams in single product companies.