

Reg. No.

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B.E / B. Tech (Full Time) DEGREE END SEMESTER EXAMINATION, APR / MAY 2019

INFORMATION TECHNOLOGY BRANCH,

(REGULATIONS 2012)

IT8018 – SOFTWARE TESTING

Time: 3 Hrs.

Max Marks :100

Answer ALL Questions

Part- A (10 * 2 = 20 Mark)

1. What are the differences between testing and debugging?
2. Point out the role of defect Repository?
3. List the rules-of-thumb useful for getting started with boundary value analysis?
4. How would you calculate cyclomatic complexity?
5. Compare functional Testing from non-functional Testing?
6. Define black-box Testing?
7. List the various skills needed by a test specialist?
8. Provide the role of manager in support of test group?
9. What to automate? list the scope of automation?
10. List the criteria's for selecting the test tools?



Part- B (5 * 16 = 80 Mark)

11. a) Define defect and illustrate the various origins of defects and explain the way would you apply to solve the concepts of defects with the coin problem? (16)
12. (a) (i) What approach would you use for testing strategies? Explain? (8)
(ii) Show how black box testing is performed in COTS components? (8)

(OR)

12. (b) Demonstrate the various black box test cases using Equivalence class partitioning and boundary values analysis to test a module for ATM system? (16)

13. (a) (i) Differentiate alpha testing from beta testing and discuss about the phases in which alpha and beta testing is done? (8)

(ii) Provide the details how alpha testing from beta testing are related to milestone and deliverable? (8)

(OR)

13. (b) State and describe different levels of Testing? (16)

14. (a) (i) Describe about the testing team structure for single product companies. (8)

(ii) Briefly outline the sample testing policy statement appropriate for a TMM level 2 Organization? (8)

(OR)

14. (b) Differentiate between the effect of globalization and geographically distributed team in product testing? (16)

15. (a) (i) List the requirements for test tool. Explain with suitable examples. (8)

(ii) What role do testers play in support of the integration of testing activities into the software life cycle? (8)

(OR)

15. (b) How would you classify the measurements in productivity metrics. Summarize it. (16)

