

(An ISO 9001: 2008 Certified Institution)
Dr. E.M. Abdullah Campus, Ramanathapuram – 623 502
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



IT6004-SOFTWARE TESTING

Question Bank

Unit-I Introduction Part A

- 1) Define Software Engineering..
- 2) Define software Testing.
- 3) List the elements of the engineering disciplines.
- 4) Differentiate between verification and validation?(U.Q Nov/Dec 2009)
- 5) Define the term Testing.
- 6) Differentiate between testing and debugging. (U.Q Nov/Dec 2008)
- 7) Define process in the context of software quality. (U.Q Nov/Dec 2009)
- 8) Define the term Debugging or fault localization.
- 9) List the levels of TMM.
- 10) List the members of the critical groups in a testing process (U.Q Nov/Dec 2008)
- 11) Define Error.
- 12) Define Faults (Defects).
- 13) Define failures.
- 14) Distinguish between fault and failure. (U.Q May/June 2009)
- 15) Define Test Cases.
- 16) Write short notes on Test, Test Set, and Test Suite.
- 17) Define Test Oracle.
- 18) Define Test Bed.
- 19) Define Software Quality.
- 20) List the Quality Attributes.
- 21) Define SQA group.
- 22) Explain the work of SQA group.
- 23) Define reviews.
- 24) List the sources of Defects or Origins of defects. Or list the classification of defect (U.Q May/June 2009)



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Part B

- 1. Discuss in detail Testing Maturity Model (TMM)
- 2. Discuss in detail Software testing principles.
- 3. Explain in detail the tester's role in a software development organization
- 4. Explain in detail defect classes, the defect repository and test design
- 5. Explain in detail about defect analysis in coin problem

Unit-II

Test Case Design

Part A

- 1. Define Smart Tester.
- 2. Compare black box and white box testing.
- 3. Draw the tester's view of black box and white box testing.
- 4. Write short notes on Random testing and Equivalence class portioning.
- 5. List the Knowledge Sources & Methods of black box and white box testing.
- 7. Define State.
- 8. Define Finite-State machine.
- 9. Define Error Guessing.
- 10. Define COTS Components.
- 11. Define usage profiles and Certification.
- 12. Write the application scope of adequacy criteria?
- 13. What are the factors affecting less than 100% degree of coverage?
- 14. What are the basic primes for all structured program.
- 15. Define path.
- 16. Write the formula for cyclomatic complexity?
- 17. List the various iterations of Loop testing.
- 18. Define test set.
- 19. What are the errors uncovered by black box testing?



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Part B

- 1. Explain in detail block box testing approach with example
- 2. Explain detail white box testing approach with example
- 3. Briefly explain about Requirement based testing?
- 4. Explain about Positive and Negative testing?
- 5. Explain about Boundary value analysis:
- 6. Briefly explain about Equivalence class partitioning?

Unit-III Levels of Testing Part A

- 1. List the levels of Testing or Phases of testing.
- 2. Define Unit Test and characterized the unit test.
- 3. List the phases of unit test planning.
- 4. List the work of test planner.
- 5. Define integration Test.
- 6. Define System test.
- 7. Define Alpha and Beta Test
- 8. What are the approaches are used to develop the software?
- 9. List the issues of class testing.
- 10. Define test Harness.
- 11. Define Test incident report.
- 12. Define Summary report.
- 13. Goals of Integration test.
- 14. What are the Integration strategies?
- 15. What is Cluster?
- 16. List the different types of system testing.
- 16. Define load generator and Load.
- 18. Define functional Testing.
- 19. What are the two major requirements in the Performance testing.
- 20. Define stress Testing.
- 22. What are the steps for top down integration?
- 23. What is meant by regression testing?



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Part B

- 1. Explain testing and debugging goals and policies
- 2. Explain test plan components
- 3. Explain test plan attachments
- 4. Explain reporting test result formats
- 5. Explain how to build a testing group
- 6. Explain structure of the testing group
- 7. Explain careers paths for tester with example

Unit-IV

Test Management

Part A

- 1) Write the different types of goals?
- 2) Define Goal and Policy
- 3) Define Plan.
- 4) Define the hierarchy of test paln
- 5) List the Test plan components.
- 6) Define a Work Breakdown Structure.(WBS)
- 7) Write the approaches to test cost Estimation?
- 8) Write short notes on Cost driver.
- 9) Write the WBS elements for testing.
- 10) What is the function of Test Item Transmittal Report or Locating Test Items
- 11) What is the information present in the Test Item Transmittal Report or Locating Test Items
- 12) Define Test incident Report
- 13) Define Test Log.
- 14) What are the Three critical groups in testing planning and test plan policy?
- 15) Define Procedure.
- 16) What are the skills needed by a test specialist?
- 17) Write the test term hierarchy?



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Part B

- 1. Write short notes on Testing and Debugging goals and Policy
- 2. Write short notes on Test planning
- 3. Explain in detail about Test Plan Components
- 4. Give the deliverables in Test Plan Attachments
- 5. How the tester Reports Test Results
- 6. Illustrate the role of the 3 critical groups

Unit-V Test Automation

- 1. Define Project monitoring or tracking.
- 2. Define Project Controlling.
- 3. Define Milestone.
- 4. Define SCM (Software Configuration management).
- 5. Define Base line.
- 6. Differentiate version control and change control.
- 7. What is Testing?
- 8. Define Review
- 9. What are the benefits of a Review program?
- 10. What are the Various types of Reviews?
- 11. What is Inspections?
- 13. What is WalkThroughs?
- 14. List out the members present in the Review Team.
- 15. List the components of review plans.
- 16. What are the goals of Reviewers?

Part B

- 1. Explain the measurements and milestones for monitoring and controlling
- 2. What are criteria to be considered for test completion
- 3. Explain in detail about software configuration management
- 4. Explain in detail the types of reviews
- 5. List the components of review plans