**STQA CAT1 QB – Answers**

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| **1. a) What is SDLC? Describe in detail.** |
| **1. b) Difference between Verification and Validation.** |
| **2. a) Explain in detail about the following terminologies in testing: Error, Fault, Failure** |
| **2. b) What is test case? Design the test case to for the scenario: “Check Login Functionality”** |
| **3. a) What are the different practices for designing good test case? Explain in detail.** |
| **3. b) What do you mean by Test Case Management? Enlist any two Test Case Management Tools.** |
| **4. a) What are Test Oracles? Explain in detail.** |
| **4. b) What is Test Case Scenario? Explain in detail with suitable example.** |
| **5. a) What is boundary value analysis? Explain in detail with suitable example.** |
| **5. b) What is Equivalence class partitioning? Explain in detail with suitable example.** |
| **6. a) Differentiate between black box testing and white box testing.** |
| **6. b) What is state transition testing? Explain in detail with suitable example.** |
| **7. a) Enlist any four tools to perform White box testing? Also explain advantages and disadvantages of white box testing.** |
| **7. b) What is static testing? Explain in detail with suitable example.** |
| **8. a) What is McCabe’s Cyclomatic Complexity?**  **Compute Cyclomatic Complexity of following program code.**  **i = 0; n=4; //N-Number of nodes present in the graph while (i** |
| **8. b) Enlist any two tools for computation of Cyclomatic Complexity? How does Cyclomatic complexity is useful in software testing?** |
| **9. a) What is unit testing? Explain in detail with suitable example.** |
| **9. b) Explain in detail about advantages and disadvantages of unit testing.** |
| **10. a) What is integration testing? Explain in detail with suitable example.** |
| **10. b) Explain in detail about advantages and disadvantages of integration testing.** |