**What is Manual testing ?**

Manual Testing is a process of finding out the defects or bugs in a software program. In this method the tester plays an important role of end user and verifies that all the features of the application are working correctly. The tester manually executes test cases without using any automation tools.

**What is STLC?**

Software Testing Life Cycle (STLC) is the testing process which is executed in systematic and planned manner

1.Requirement Analysis

2.Test Plan

3.Test Design

4.Test environment setup

5.Test Execution

6.Test Closure

**Difference between Manual and Automation testing?**

In manual testing, test cases are executed manually by human without any support from tools or scripts. But with automated testing, test cases are executed with the assistance of tools, scripts, and software.

**What is Test Coverage?**

Amount of testing performed by a set of test cases is called Test Coverage

**What is the difference between Sanity and Smoke testing?**

Sanity Testing is done to check the new functionality / bugs have been fixed. ...Sanity testing is usually performed by testers. Smoke testing is usually documented or scripted. Sanity testing is usually not documented and is unscripted. Smoke testing is a subset of Regression testing.

**Difference between Black box and White box testing?**

Black Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is NOT known to the tester. White Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is known to the tester

**What are the test case design techniques?**

1.Boundary Value Analysis (BVA)

2.Equivalence Partitioning (EP)

3.Decision Table Testing.

4.State Transition Diagrams.

5.Use Case Testing.

**When Smoke testing is done?**

Smoke testing should be performed on each and every build without fail as it helps to find defects in early stages. Smoke test activity is the final step before the software build enters the system stage. Smoke tests must be performed on each build that is turned to testing

**Different types of testing?**

* Functional Testing
* Unit Testing
* Integration Testing
* System Testing
* Acceptance Testing
* Non-Functional Testing
* Performance, Load, Stress Testing
* Security and Vulnerability Testing

**What is Regression testing?**

Regression testing is the process of testing changes to application to make sure that the older functionality is not broken and working fine.

**What is Functional Testing?**

Which verifies that each **function** of the software application operates in conformance working fine according to the requirement specification.

**What is Unit testing?**

Unit Testing of software applications is done during the development (coding) of an application.

The goal of Unit Testing is to isolate each part of the program and show that the individual parts are correct. Unit Testing is usually performed by the developer.

**What is Integration testing?**

In integration Testing, individual software modules are integrated logically and tested as a group.

**What is System testing?**

System Testing is the testing of a complete and fully integrated software product.

**What is User Acceptance testing?**

User acceptance is a type of testing performed by the Client to certify the system with respect to the requirements that was agreed upon. This testing happens in the final phase of testing before moving the software application to Market or Production environment.

**What is non functional testing?**

Like[Functional Testing](https://www.guru99.com/functional-testing.html), there are non-functional requirements like performance, usability, load factor that are also important to check the capability of the application.

**What is performance testing?**

Performance Testing is a type of testing to ensure software applications will perform well under their expected workload.

**What is load testing?**

Load testing is a kind of [Performance Testing](https://www.guru99.com/performance-testing.html) which determines a system's performance under real-life load conditions. This testing helps determine how the application behaves when multiple users access it simultaneously.

**Different methodologies in testing?**

* Waterfall model.
* V model.
* Agile model.
* Iterative Model.
* Spiral model.

**Waterfall Methodology:**

In the [waterfall model](https://www.guru99.com/what-is-sdlc-or-waterfall-model.html) ,software development progress through various phases like Requirements Analysis , Design etc -  **sequentially**. In this model, next phase begins only when the earlier phase is completed.

**V Model:**

The V-model is an SDLC model where execution of processes happens in a sequential manner in a V-shape. It is also known as Verification and Validation model. The V-Model is an extension of the waterfall model and is based on the association of a testing phase for each corresponding development stage

**Iterative Model:**

The relationship between iterations and increments is determined by the overall software development methodology and software development process.

**Agile Methodology:**

In [Agile methodology](https://www.guru99.com/agile-scrum-extreme-testing.html)   , software is developed in   incremental, rapid cycles. Interactions amongst customers, developers and client are emphasized rather than processes and tools. Agile methodology focuses on responding to change rather than extensive planning.

**Spiral Model:**

Spiral Model is a combination of a waterfall model and iterative model. Each phase in spiral model begins with a design goal and ends with the client reviewing the progress

**How do you write test cases?**

1. Use a Strong Title.
2. Include a Strong Description.
3. Include Assumptions and Preconditions.
4. Keep the Test Steps Clear and Concise.
5. Include the Expected result.
6. Make it Reusable