

# Manual Testing

## 1. Software Engineering Concepts

- a. Introduction
- b. Importance of software systems
- c. Common problems in software development and Software Bugs
- d. Testing Objectives

## 2. SDLC

- a. Software Life Cycle Stages
- b. Testing Stage in SDLC
- c. Cost of Defect Repair
- d. Risk of inadequate

## 3. Software Development Models

- a. Waterfall Model
- b. Incremental Model
- c. Agile model – imp
- d. Spiral Model
- e. V Model- imp

## 4. Static Testing

## 5. Dynamic Testing

- a. Unit Testing
- b. Integration Testing
- c. System Testing
- d. User Acceptance Testing

## 6. Software Testing Life Cycle and implementation.

- a. validation
- b. verification

## **7.Test Requirements Gathering and Analysis**

## **8.Test Case identification**

## **9.Test Case Design**

- a.Test Case Design Templates
- b.Types of Test Cases
- c.Test Case Design Reviews
- d.Requirement Traceability Matrix

## **10.Test Strategy**

## **11.Test Plan**

## **12.Test Data Setup**

- a.Importance of Test data in Testing
- b.Approach for gathering Test Data
- c.Benefits of Test data Gathering
- d.Managing Test data and creating Data Repositories.

## **13.Test Execution**

- a.Test Execution Life cycle Process
- b.Different levels of Test Execution
- c.Sanity/ Smoke testing(Level 0)
- d.Execution(Level 1)
- e.Retesting(Level 2)
- f.Regression Testing(Level 3)
- g.Database Testing.

## **14.Defect Reporting and Tracking.**

- a.What is defect?
- b.Categories of defects
- c.Defect life cycle process
- d.Formal Defect report Template.

## **15. User Acceptance Testing**

- a. Importance of User Acceptance Testing
- b. Alpha Testing
- c. Beta Testing

## **16. Importance of reporting and reporting tools**

- a. BugZilla
- b. QC (Test Management Tool).

## **17. Other commonly performed Testing Techniques.**

- a. Gray Box Testing
- b. Usability Testing
- c. User Interface Testing
- d. Compatibility Testing
- e. Configuration Testing
- f. Adhoc Testing
- g. Exploratory Testing
- h. Installation and Un-installation Testing
- i. Recovery Testing
- j. Security Testing