Q 1 What are the typs of

**Mobile Testing Interview Questions & Answers**

**1) Explain what is the difference between Web testing and WAP testing?**

* **WAP Testing:** It is the testing the WAP (Wireless Application Protocol) used in network applications
* **Web Testing:** It is related mainly to the testing of web applications such as websites and portals

**2) List out some of the automated mobile testing tools?**

For mobile testing, two kinds of automation tools are available to test mobile Applications.

* Object based mobile testing tools: Jama solution, Ranorex,
* Image based mobile testing tools: RoutinBot, Egg Plant, Sikuli

**3) Explain what is the difference between simulator and emulator?**

* **Simulator:** It is an electronic network simulation equipment or a base station equipment for CDMA/CMA mobile phones. It helps in latching home networks without roaming services and can make Voice; Data calls, SMS,
* **Emulator:** It is a software to test mobile application without a live handset

**4) List out the types of mobile app testing?**

The types of mobile app testing includes

* [Usability Testing](https://www.guru99.com/usability-testing-tutorial.html)
* [Compatibility Testing](https://www.guru99.com/compatibility-testing.html)
* Interface testing
* Services testing
* Low-level resource testing
* [Performance Testing](https://www.guru99.com/performance-testing.html)
* Operational testing
* Installation tests
* [Security Testing](https://www.guru99.com/what-is-security-testing.html)

**5) Mention what is the Android testing strategy?**

The standard Android testing strategy must include the following test

* Unit Test
* Integration Test
* Operation Test
* System Test

**6) Explain Android testing framework?**

Android testing framework includes three segments

* **Application Package:** It is the target application that requires to be tested
* **Instrumentation TestRunner:** It is a[Test Case](https://www.guru99.com/test-case.html)runner that runs test cases on target application. It includes an **SDK tools** for building test and a **tool that provides APIs** for writing program that control an android device, for example, MonkeyRunner
* **Test Package:** It includes two classes, **Test case classes,** and **Mock objects**. Test case classes include test methods to perform on target application, while mock object includes mock data that will be used as sample input for test cases.

**7) List out the best practices for Android Testing?**

* Developer should prepare the test cases at the same time when they are writing the code
* Together with source code all test cases should be stored
* Use continuous integration and execute tests every time the code is changed
* Avoid using rooted devices and emulators

**8) Mention what are the common bugs found while mobile testing?**

* **Critical:** Your phone system crash when testing particular feature in your device
* **Block:** Unable to do anything though phone is on unless you reboot your device
* **Major:**Unable to perform a function of a particular feature
* **Minor:** Under minor bugs usually GUI bugs fall.

**9) Explain what is Robo-electric testing framework?**

Testing done on Android Testing Framework for emulators or device is difficult.  Running and building test case sometimes takes lots of development effort.  Robo-electric framework allows you to run Android test directly on JVM without the need of a device or an emulator.

**10) Explain how A/B testing is done for ios app?**

A/B testing for ios includes three steps

* **Configure a test:** It prepares two versions of your iOS app (A&B) and test metric
* **Test:** Tests two iOS versions above on devices simultaneously
* **Analyze:** It select and measure better version to release

**11) While performing end to end mobile testing what are the major criteria, you have to take in consideration?**

* Installation
* Application launching without having network
* Uninstallation of app
* Orientation of app if it supports
* Testing application performance on a different kind of devices and network scenarios
* Testing the application response how it is responding

**12) List out the features does monkey tool provides?**

Monkey tools provide features like

* Basic configuration options
* Operational constraints
* Event types and frequencies
* Debugging options

**13) Mention what should be the selecting criteria for Test Automation Tool for mobile Testing?**

For mobile testing, the test automation tool should have following criteria

* **Multi-platform support:** Ensure that the tool does support your current and future target platform
* **Script Usability:** Object-based tools provides a high degree of the script usability
* **Jailbreak Requirement:** If the tool uses rooted devices, it may not support latest OS version and may be incompatible with MDM policies
* **Source Code Changes:** Sharing source code may not be possible always
* **Lead time for New OS version:** How soon tool can support new iOS/android/other OS version

**14) When to choose automation testing and when manual testing?**

**Manual Testing**

* If the application has new functionality
* If the application requires testing once or twice

**Automate Testing**

* If the regression tests are repeated
* Testing app for complex scenarios

**15) List out the most common problem that tester faces while doing mobile testing in Cloud Computing?**

Challenges that tester faces while doing mobile testing are

* Subscription model
* High Costing
* Lock-in
* Internet connectivity issues
* Automation is image based and time-consuming
* Automation cannot be used outside the framework

**16) Explain what does mobile security testing includes?**

Mobile security testing includes

* Checks for multi-user support without interfering with the data between them
* Checks for access to files stored in the app by any unintended users
* Decryption or Encryption method used for sensitive data communication
* Detect sensitive areas in tested application so that they do not receive any malicious content

**17) List out mobile App testing?**

* Testing in all web browsers
* Browsers very significantly across the devices
* May support xHTML,HTML,WML,AJAX
* Difficulty in Benchmarking the performance due to highly fragmented Market
* Emulators do not capture all the attributes or characteristics of a device
* Implementation of the specification may not be consistent across vendors and devices
* In some situation, transcoder may not respect user experience factors

**18) Explain what is port testing?**

This testing is done to test the same functionality on different devices with different platforms. It is classified into two categories

* Device Testing
* Platform Testing

**19) List out some iPhone and iPad testing tools?**

* iPhone tester: Test your web interface in an i-phone sized frame
* Appium: It is a test automation tool used with native and hybrid ios application
* iPad Peek: Test your web application using an iPad interface
* Test Studio: It enables you to record, build and run automated tests for your iPad and iPhone applications.

**20) Explain how you can install SD card in emulator?**

To install SD card in emulator, you have to use the command

***MKsdcrd –I mySDCard 1024M mySdCardFile.img***