**Mobile Automation**

**1. Classification of Apps:**

* **1.Native Apps – specific OS supported language.**
* **2.Hybrid Apps- Apps written in generic language.**
* **3.Mobile web apps- Based on Responsive UI**

**2. Types of Mobile testing:**

* **Usability Testing**
* **Compatibility Testing**
* **Configuration Testing**
* **Interface Testing**
* **Services Testing**
* **Performance Testing**
* **Operational Testing**
* **Installation Testing**
* **Security Testing**

**3. What is the need for automating mobile testing.**

**4. Different Test Automation Frameworks:**

* **Robotium – Android test automation FW**
* **UI Automator -Android test automation FW**
* **Espresso - Android test automation FW**
* **Calabash- Android and IOS FW**
* **Selendroid- using SDK version <16**
* **Appium – using SDK Version >16**
* **UIAutomation- IOS Test Automation FW**

**5. What is Appium.**

* **From Sauce Labs**
* **Wrapper around WebDriver**
* **For Cross platform mobile testing**
* **Has vendor provided libraries to perform automation.**
* **UI Automator**
* **UI Automation**
* **Win App driver**

**6. What is UI Automator**

**Testing FW provided by Android to test features and functionalities of Android App.**

**Includes**

* **UI Automator Viewer**
* **UI Device Class**
* **UI Automator API**

**7. Difference between Emulator and Simulator. Why do we use them.**

**Emulator**

* **Duplicate every aspect of mobile including hardware.**
* **Provided by device manufacturer for Android, Windows**
* **Written in machine level assembly language.**

**Simulator**

* **Similar to device, but some programs may run differently.**
* **Does not emulate hardware**
* **Written in high level language.**
* **Provided by device manufacturer for IOS, Blackberry**

**8. What is Android SDK**

**Developmental tool kit for Android Developers, just like JDK for Java developers.**

**9. What are .apk file and .ipa file.**

**.apk – Android Application package file**

**.ipa – ios Application package file**

**10. What are Android Studio and XCode.**

**Android Studio – IDE for Android development**

**XCode – IDE for IOS development**

**11.How do you get .apk file and .ipa file.**

**12.What is AVD**

**AVD is Android Virtual Device to emulate devices.**

**13.What is adb.What are the main adb commands.**

**adb is Android Debug Bridge which acts as a bridge between device and android app.It is a command line tool.**

**adb devices**

**adb logcat**

**adb killjob**

**adb start-server**

**adb kill-server**

**14. Explain Appium Architecture**

**15. What is the use of Appium Inspector.**

**16. What are the locators that you have seen in UI Automator viewer.**

**text – By.name**

**resource\_id – By.id**

**class – By.class**

**content\_desc – By.name**

**17. Real time challenges in Mobile Automation.**

**18. How did you develop Mobile Automation FW.**

**19. How do you debug while you do Mobile Automation.**

**20. How did you do Cross Browser testing in Mobile Automation.**