**2) List out the Appium abilities?**

Appium abilities are

* Test Web
* Provides cross-platform for Native and Hybrid mobile automation
* Support JSON wire protocol
* It does not require recompilation of App
* Support automation test on physical device as well as similar or emulator both
* It has no dependency on mobile device

**3) List out the pre-requisite to use APPIUM?**

Pre-requisite to use APPIUM is

* ANDROID SDK
* JDK
* TestNG
* Eclipse
* Selenium Server JAR
* Webdriver Language Binding Library
* APPIUM for Windows
* APK App Info On Google Play
* js

**4) List out the limitations of using Appium?**

* Appium does not support testing of Android Version lower than 4.2
* Limited support for hybrid app testing. E.g., not possible to test the switching action of application from the web app to native and vice-versa
* No support to run Appium Inspector on Microsoft Windows

**5) Explain how to find DOM element or xPath in a mobile application?**

To find the DOM element use "UIAutomateviewer" to find DOM element for Android application.

**7) What language does Appium support?**

Appium support any language that support HTTP request like Java,[JavaScript](https://www.guru99.com/interactive-javascript-tutorials.html)with Node.js, Python, Ruby, PHP, Perl, etc.

**8) Explain the pros and cons of Appium?**

**Pros**:

* For programmer irrespective of the platform, he is automating ( Android or iOS) all the complexities will remain under single Appium server
* It opens the door to cross-platform mobile testing which means the same test would work on multiple platforms
* Appium does not require extra components in your App to make it automation friendly
* It can automate Hybrid, Web and Native mobile applications

**Cons**:

* Running scripts on multiple iOS simulators at the same time is possible with Appium
* It uses UIAutomator for Android Automation which supports only Android SDK platform, API 16 or higher and to support the older API's they have used another open source library called Selendroid

**9) Explain what is APPIUM INSPECTOR?**

Similar to[Selenium](https://www.guru99.com/selenium-tutorial.html)IDE record and Playback tool, Appium has an "Inspector" to record and playback. It records and plays native application behavior by inspecting DOM and generates the test scripts in any desired language. However, Appium Inspector does not support Windows and use UIAutomator viewer in its option.

**10) Mention what are the basic requirement for writing Appium tests?**

For writing Appium tests you require,

* **Driver Client**: Appium drives mobile applications as though it were a user. Using a client library you write your Appium tests which wrap your test steps and sends to the Appium server over HTTP.
* **Appium Session**: You have to first initialize a session, as such Appium test takes place in the session. Once the Automation is done for one session, it can be ended and wait for another session
* **Desired Capabilities**: To initialize an Appium session you need to define certain parameters known as "desired capabilities" like PlatformName, PlatformVersion, Device Name and so on. It specifies the kind of automation one requires from the Appium server.
* **Driver Commands**: You can write your test steps using a large and expressive vocabulary of commands.

**12) Do you need a server machine to run tests on Appium**?

No, you don't need server machine to run tests on Appium. Appium facilitates a 2-tier architecture where a test machine connects to a test server running Appium and automating the whole thing. You can have Appium running on the same machine where your test runs.

**15) While using Appium can I run my tests in a multithreaded environment?**

Yes, you can run the test in a multithreaded environment but you have to ensure that no more than one test runs at the same time against the same Appium server.

**17) Explain what is Appium package master? How to create package?**

Appium package master is a set of tools manage and create appium packages. For example to create package you can use the code

# using es7/babe1

Gulp create-package –n <package-name>

#regular es5

Gulp create-package ---nobabe1 –n <package-name>

The package will be generated in the out/<package-name>

**18) Explain how test frameworks are supported by Appium?**

Appium does not support test framework as such there is no need to support them. Appium can be used with any frameworks you want.