**Q.1 which components have used in load runner ?**

**Load Generator** generates the load against the application by following scripts

**Vu Gen** (Virtual User Generator) for generating and editing scripts

**Controller** controls, launches and sequences instances of Load Generator - specifying which script to use, for how long etc. During runs the Controller receives real-time monitoring data and displays status.

**Q.2 How can you set the number of Vusers in Load Runner?**

**Ans.** You can set the number of V users in the controller section while creating your scenarios. Many other advanced options like ramp-up, ramp-down of V users are also available in the Controller section.

**Q.3 What is Correlation?**

Ans. Correlation refers to the statistical relationship between two entities. In other words, it's how two variables move in relation to one another. Correlation can be used for various data sets, as well

. **Q.4 What is the process for developing a V user Script?**

1. . Recording the v user
2. Edit the v user script.
3. Run time setting
4. Run the v user script in stand-alone mode.
5. Incorporate the v user script into a load runner scenario.

**Q.5. How Load Runner interacts with the application?**

**Ans**. Protocol is used in Load Runner interacts with the application.

**Q.6 How many V Users are required for load testing?**

[The goal of load testing](http://techbeacon.com/when-should-i-start-load-testing) is to find problems before they impact users. The more realistic your simulation, the more likely you'll catch bottlenecks that lead to a bad user experience.

While many variables affect accuracy, the number of concurrent virtual users is one of the most important. Ideally, you could test with as many virtual users as you need. In practice, this may be too expensive because [load testing](https://www.microfocus.com/en-us/what-is/load-testing) software is priced on the number of concurrent virtual users.

**Q.6 what is the relationship between Response Time and Throughput?**

Response time and throughput are related. The response time for an average transaction tends to decrease as you increase overall throughput.

However, you can decrease the response time for a specific query, at the expense of overall throughput, by allocating a disproportionate amount of resources to that query. Conversely, you can maintain overall throughput by restricting the resources that the database allocates to a large query.

**Q.7 what is the difference between hits/second and requests/second?**

Hits per second means the number of hits the server receives in one second from the v user.

Request per second is the number of request the v user will request from the server.

**Q.8 what is Automation Testing?**

**Automation Testing** is a software testing technique that performs using special automated testing software tools to execute a test case suite. On the contrary, Manual Testing is performed by a human sitting in front of a computer carefully executing the test steps.

**Q.9 Which Are The Browsers Supported By Selenium Ide?**

 Google Chrome, Mozilla Firefox, and Microsoft Edge.

**Q.10 what are the benefits of Automation Testing?**

1. Faster Feedback Cycle. …
2. Testing on Multiple Platforms in Parallel. …
3. Reusability of Test Scripts. …
4. Easy Data-driven Testing. …
5. Test Insights. …
6. Maximum Test Coverage. …
7. 24X7 Test Execution. …

**Q.11 What are the advantages of Selenium ?**

**1.Open source**

As mentioned earlier, the biggest strength of Selenium is that it is a freeware and a portable tool. It has no upfront direct costs involved. The tool can be freely downloaded and the community-based support for it is freely available.

**2.Language support:**

Selenium supports a range of languages, including Java, Perl, Python, C#, Ruby, Groovy, JavaScript, and more. It has its own script, but it is not limited by that language. It can work with various languages – whatever the developers/testers are comfortable with.

**3. Supports Operating Systems:**

Selenium can operate and support across multiple Operating Systems (OS) like Windows, Mac, Linux, and UNIX. With Selenium suite of solutions, a tailored testing suite can be created over any platform and then executed on another one. For instance, you can create test cases using Windows OS and run it with ease on a Linux–based system.

**4.Support across browsers:**

Selenium provides support across multiple browsers, namely, Internet Explorer, Chrome, Firefox, Opera, and Safari. This becomes highly resourceful while executing tests and testing it across various browsers simultaneously.

**5.Support for programming languages and framework**

Selenium integrates with programming languages and various frameworks. For instance, it can integrate with ANT or Maven type of framework for source code compilation. Further, it can integrate with the TestNG framework for testing applications and reporting purposes. It can integrate with Jenkins or Hudson for Continuous Integration (CI) and can even integrate with other open-source tools to support other features.

**6.Tests across devices**

Selenium Test Automation can be implemented for mobile web application automation on Android, iPhone, and Blackberry. This can help in generating necessary results and address issues on a continuous basis.

**7.Constant updates**

Selenium support is community–based, which enable constant updates and upgrades. These upgrades are readily available and do not require specific training. This makes Selenium resourceful and cost-effective as well.

**8.Loaded Selenium suites**

Selenium is not just a singular tool or utility, it a loaded package of various testing tools and so, is referred to as a Suite. Each tool is designed to cater to different testing needs and requirements of test environments.

Additionally, Selenium comes with capabilities to support Selenium IDE, Selenium Grid, and Selenium Remote Control (RC).

**9.Ease of implementation**

Selenium offers a user-friendly interface that helps create and execute tests easily and effectively. Its open-source features help users to script their own extensions that make them easy to develop, customized actions and even manipulate at an advanced level.

Tests run directly across browsers and the users can watch while the tests are being executed. Additionally, Selenium’s reporting capabilities are one of the reasons for choosing it, as it allows testers to extract the results and take follow-up actions.

**10.Reusability and Add-ons**

Selenium Test Automation framework uses scripts that can be tested directly across multiple browsers

**Q.12 Why testers should opt for Selenium and not QTP?**

1. Its is just a commercial tool, which is not free.
2. QTP uses only one language that is VBScript
3. IT only Windows platform.

Although there are many other advantages of using UFT when compared to Selenium, Selenium wins the race. You can read the following Selenium Tutorial to learn more about it.