1. **Which Components have you used in Load Runner?**

**Answer:**

1. **Load Generator** - It is used to generate the load against the application by running the script.
2. **VuGen** (Virtual user generator) - It is used for generating and editing scripts.
3. **Controller** - It is used to control, launch, and sequence the instance of a Load Generator.
4. **Agent Process** - It is used to manage the connection between the Controller and Load Generator instances.
5. **Analysis** - It assembles the logs from different load generators and formats the reports for visualization of results and monitoring data.
6. **How can you set the number of Vusers in Load Runner?**

**Answer:** You may adjust the number of Vusers in the controller section area while creating scenarios. In the controller section there are many sophisticated options such as Vuser ramp-up and ramp-down in addition to this.

1. **What is Correlation?**

**Answer:** Correlation is used to deal with the dynamic values in a test script. The dynamic values may change depending on each user action (value changes when the same user repeats the action) or for different users (value changes when action is replayed with different users). These values are maintained via correlation in both situations, ensuring that they do not break down during execution.

1. **What is the process for developing a Vuser Script?**

**Answer:** There are 5 steps for developing a vuser script.

1. Recording the Vuser script.
2. Edit the Vuser script.
3. Runtime setting.
4. Run the Vuser script in stand-alone mode.
5. Incorporate the Vuser script into a load runner scenario.
6. **How Load Runner interact with the application?**

**Answer:** Load Runner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as key presses or mouse movements. The messages and interactions to be generated are stored in scripts. Load Runner can generate the scripts by recording them.

1. **How Many VUser are required for load testing?**

**Answer**: The number of VUsers required depends on your system under test, network configurations, hardware settings, memory, operating system, software applications objective of a performance test. There can’t be any generic value for Vuser.

1. **What is the relationship between Response time and Throughput?**

**Answer:** The Throughput shows the amount of data in bytes that the Vusers received from the server in a second. When it is compared with transaction response time, throughput and response time get decreased.

The peak throughput and highest response time would occur approximately at the same time.

1. **What is difference between hits/second and requests/second?**

**Answer:** Hits per second mean the number of hits the server receives in one second from the vuser.

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

1. **What is Automation Testing?**

**Answer:** Automation testing is a Software testing technique to test and compare the actual outcome with the expected outcome. This can be achieved by writing test scripts or using any automation testing tool. Test automation is used to automate repetitive tasks and other testing tasks which are difficult to perform manually.

1. **Which Are The Browsers Supported By Selenium Ide?**

**Answer:**

* Firefox Browser
* Chrome Browse

1. **What are the benefits of Automation Testing?**

**Answer:**

1. 70% faster than the manual testing
2. Wider test coverage of application features
3. Reliable in result
4. Ensure consistency
5. Saves Time and Cost
6. Improves accuracy
7. Human Intervention is not required while execution
8. Increases Efficiency
9. Better speed in executing tests
10. Re-usable test script
11. Test Frequently and thoroughly
12. More cycle of execution can be achieved through automation
13. Early time to market
14. **What are the advantages of Selenium?**

**Answer:**

1. The main advantage of Selenium is that it is an open-source tool and free to use.
2. Multi-Language Support like Java, Perl, Python, C#, Ruby, Groovy, Java Script, and VB Script. etc.
3. Multi-Browser Support like Internet explorer, Chrome, Firefox, Opera, Safari etc.
4. Platform Support like Windows, Macintosh, Linux, Unix etc.
5. Selenium can be used for Android, IPhone, Blackberry etc. based application testing.
6. Selenium supports very less CPU and RAM consumption for script execution.
7. **Why testers should opt for Selenium and not QTP?**

**Answer**: Selenium is more popular than QTP as

* Selenium is an open source whereas QTP is a commercial tool
* Selenium is used specially for testing web based applications while QTP can be used for testing client server application also
* Selenium supports Firefox, IE, Opera, Safari on operating systems like Windows, Mac, Linux etc. however QTP is limited to Internet Explorer on Windows.
* Selenium supports many programming languages like Ruby, Perl, Python whereas QTP supports only VB script