

## Module-4 Automation Core Testing (Load Runner Up and Selenium IDE)

### Que 1.) Which components have you used in Load Runner?

Ans. : LoadRunner consists of three main components: Virtual User Generator (VuGen), Controller, and Analysis.

### Que 2.) How can you set the number of Vusers in Load Runner?

Ans. :

Basic Schedule : In the Performance Test Designer window, in the Groups grid, select a group, and in the Vusers column then enter the number of Vusers to allocate to that group.

Real-world schedule : You define the number of Vusers when you define the test schedule in load runner.

### Que 3.) What is Correlation?

Ans. : In software testing, It is the process of capturing and storing dynamic responses from a server and then passing those values to subsequent requests.

This is crucial because many web applications use dynamic data (like session IDs) that change with all request, and failing to account for these changes can lead to inaccurate or failing load tests.

### Que 4.) What is the process for developing a Vuser Script?

Ans. : Developing a Vuser script involves recording user interactions, analyzing the captured traffic, and then refining the script to match the desired load testing scenarios using tools, so its easy for understand the all things by script.

### Que 5.) How Load Runner interacts with the application?

Ans. : LoadRunner interacts with an application by simulating user activity and generating requests, effectively acting as a virtual user to test performance under various load conditions. So, its major that application take load or not.

**Que 6.) How many VUsers are required for load testing?**

Ans. : The number of vuser is depends of requirements, situation, capacity, performance or many more.

Here is formula of load testing :

The formula is: Virtual users = (RPS) \* (latency in seconds)

**Que 7.) What is the relationship between Response Time and Throughput?**

Ans. : Response time and throughput are inversely related; as throughput (the amount of work completed) increases, response time (the time it takes to complete a task) tends to decrease, and many more. If we put more load to software then it's required more time to response so response time is decrease and throughput is increase, if we give less task to computer then its take less time to response so our response time is increase.

**Que. 8.) What is Automation Testing?**

Ans. : Test automation is the use of software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting functions.

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

Ans. : At very first time , its supports Mozilla firefox, but after then its support only Chrome browser. In current time , there is no free version running on chrome. We need older version of chrome to run Selenium IDE.

**Que 10.) What are the benefits of Automation Testing?**

Ans. :

- Speed – Automation Scripts run very fast when compared to human users.

- Reliable – Tests perform precisely the same operations each time they are run, thereby eliminating human error.
- Repeatable – We can test how the application reacts after repeated execution of the same operation.
- Comprehensive – We can build a suite of tests that covers every feature in our application.
- Reusable – We can reuse tests on different versions of an application, even if the user interface changes.

**Que 11.) What are the advantages of Selenium?**

Ans. : Automate your testing procedure when you have lot of regression work.

Automate your load testing work for creating virtual users to check load capacity of your application.

Automate your testing work when your GUI is almost frozen but you have lot of frequently functional changes.

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

Ans. Because QTP only run in windows, its take limited add-ones.

It is commercial, while Selenium runs on Mac, Windows and many Operating system and its open source and free and also highly extensible.

Selenium supports mobile devices while QTP supports but via using 3<sup>rd</sup> party software.

In selenium it can executes testes while the browser is minimized to desktop while in QTP , its need to open the application to test.

That's why selenium is most used by Tester compare to QTP.

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Ans. :

Github Link :