**Module-5 (Load Runner Up and Selenium IDE)**

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

VU Gen: Records V user scripts that emulate the actions of real users.

Controller: Administrative centre for creating, maintaining and executing load test scenarios.

Load Generator: An agent through which we can generate load.

1. **How can you set the number of V users in Load Runner?**

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

1. **What is Correlation?**

Correlation refers to the statistical relationship between two entities. In other words, it's how two variables move in relation to one another.

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

There are four steps for developing a v user script.

* Record the V user Script.
* Playback / Enhance the recorded v user script.
* Define the various run-time settings & check.
* Incorporate the script in a LoadRunner scenario.

1. **How Load Runner interacts with the application?**

It's used to test programmes and when a system is under load, it's important to monitor its behaviour and performance. LoadRunner can simulate thousands of users running application software at the same time, capturing and assessing key component performance.

1. **How many v Users are required for load testing?**

Concurrent virtual user calculation

For example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 requests per minute), then you're making 30,000 requests per minute, which equals 500 requests per second.

1. **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 number of resources to that query.

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

Hits/second are the number of HTTP requests made by VUsers to the Web Server in a scenario or session step run on a per second basis. Requests/second are the number of requests completed during each second of scenario run.

**(Selenium IDE)**

1. **What is Automation Testing?**

Automated testing is a process that validates if software is functioning appropriately and meeting requirements before it is released into production. This software testing method uses scripted sequences that are executed by testing tools.

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

Selenium IDE has add-ons for Firefox and Chrome browsers. Selenium IDE comes with a rich set of commands that are powered by Selene’s, and it allows you to record and test different interactions of a web application with the browser

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

Test automation reduces the instances of human errors, generating consistent and reliable results every time. This means higher quality, reduced bug-fixing cost, lesser effort, and higher productivity for teams

1. **What are the advantages of Selenium?**

Selenium is the most popularly used freeware and open source automation tool. The benefits of Selenium for Test Automation are immense. Importantly, it enables record and playback for testing web applications and can run multiple scripts across various browsers

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

With Selenium grid, you have the ability to run as many tests as you want. Further, you can achieve this when you need and in parallel. You will just need a browser so that you can run the test. With QTP testing tool, there is no resource like selenium grid and hence selenium takes preference here.