MODULE-5(Automation Core Testing)

1) Which components have you used in Load Runner?

- Virutal user generator
- Controller
- Analysis

2) How can you set the number of Vusers 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.

3) What is Correlation?

- Correlation is the capturing of dynamic values passed from the server to the client and back.

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

- For developing a Vusers script refer below steps.

  Step 1- Record the Vuser Script.

  Step 2- Playback and improve the recorded vuser script.

  Step 3- Define and test the different run-time parameters.

  Step 4- Use the script in a LoadRunner scenario

5) How Load Runner interacts with the application?

- Generating messages between application components or by simulating interactions with the user interface such as key presses or mouse movements

6) How many VUsers are required for load testing?

- 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.

7) 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.

8) What is Automation Testing?

- Testing technique that uses automation testing tools to control the environment set-up, test execution and results reporting. It is performed by a computer and is used inside the testing teams.

9) Which Are The Browsers Supported By Selenium IDE?

- Currently, Firefox, Chrome, Edge, IE, and Safari are supported and the Selenium IDE

10) What are the benefits of Automation Testing?

- Below are the benefits of automation testing.

    1. 70% faster than the manual testing
    2. Wider test coverage of application features
    3. Reliable in results
    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 scripts
    11. Test Frequently and thoroughly
    12. More cycle of execution can be achieved through automation
    13. Early time to market

11) What are the advantages of Selenium.

- Below are the advantages of Selenium.

    1. Open Source Availability
    2. Support for Major Languages
    3. Flexible Test Management
    4. Multi-Browser Use
    5. Easy Cross-Device Testing
    6. Reusable Automation Test Suites
    7. Simple Framework for Users

12) Why testers should opt for Selenium and not QTP?
- Refer below Difference between Selenium and QTP.

Sr. No	Selenium	QTP
1	Open source, free to use, and free of charge.	Commercial.
2	Highly extensible	Limited add-ons
3	Can run tests across different browsers	Can only run tests in Firefox , Internet Explorer and Chrome
4	Supports various operating systems	Can only be used in Windows
5	Supports mobile devices	Supports mobile devise using 3rd party software
6	Can execute tests while the browser is minimized	Needs to have the application under test to be visible on the desktop