Q1. Which components have you used in Load Runner?

- There are three components used in load runner.
    1. Virtual User generator
    2. Controller
    3. Analysis

Q2. How can you set the number of Vusers in Load Runner?

- You can set the numbers of Vusers in the controller section while creating your scenarios many others advanced options likes ramp-up, ramp-down of Vusers are also available in the controller section.

Q3. What is Correlation?

- Correlation is the capturing of dynamic values passed from the server to the client and back. We saved the captured value into a load runner parameter, and then use this parameter in the script in place of original value.

Q4. What is the process for developing a Vuser Script?

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.

Q5.How Load Runner interacts with the application?

- Load runner simulates user activity by generating messages between application and components or by simulating interactions with the user interface such as key processes or mouse movements. The messages and interactions to be generated are stored in scripts.

Q6. How many VUsers 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.

Q7. What is the relationship between Response Time and Throughput?

- The response time for an average transaction tends to decrease as you increase overall throughput. However you decrease the response time for specific query, at the expense of overall throughput, by allocating a disproportionate amount of resources to that query.

Selenium IDE)

Q1. What is Automation Testing?

- Automation testing is an Automatic technique where the tester writes scripts by own and uses suitable software to test the software.

Q2 Which Are The Browsers Supported By Selenium IDE?

- Mozilla Firefox,
- internet explorer
- google chrome,
- safari
- Opera conqueror others

Q3 .What are the benefits of Automation Testing?

1. **Efficiency**: Automated tests can run much faster than manual tests, allowing for quicker feedback on the application's quality. This efficiency leads to faster release cycles and overall shorter development time.

2. **Reusability**: Once automated tests are created, they can be reused across multiple test cycles and environments, saving time and effort in the long run.

3. **Accuracy**: Automated tests perform the same steps consistently, reducing the risk of human error that may occur during manual testing. This increases the reliability of test results.

4. **Coverage**: Automated tests can cover a wide range of scenarios, including edge cases and negative test cases, which may be impractical to cover manually due to time constraints.

5. **Regression Testing**: Automation is particularly valuable for regression testing, ensuring that new code changes do not break existing functionality. Automated tests can quickly identify regressions and prevent them from reaching production.

6. **Parallel Execution**: Automation allows tests to be run in parallel across different environments and configurations, speeding up the testing process significantly.

7. **Cost-Effectiveness**: While there is an initial investment in setting up automated tests, in the long term, automation reduces the overall cost of testing by saving time and resources.

8. **Continuous Integration and Continuous Deployment (CI/CD)**: Automation testing integrates seamlessly with CI/CD pipelines, enabling continuous testing and delivery of high-quality software.

9. **Improved Test Reporting**: Automation testing tools often provide detailed test reports and logs, making it easier to analyse test results and identify issues.

10. **Scalability**: Automated tests can easily scale to accommodate large and complex applications, allowing teams to maintain the same level of testing efficiency as the application grows.

Q4 .What are the advantages of Selenium?

- Open-Source Availability. Open-source availability is one of the many advantages of using Selenium
- Support for Major Languages
- Flexible Test Management
- Multi-Browser Use
- Easy Cross-Device Testing
- Reusable Automation Test Suites
- Simple Framework for Users
- Enhanced Collaboration

Q5.Why testers should opt for Selenium and not QTP?

- Selenium, however, supports a wide range of programming languages. QTP/UFT test scripts run only on the Windows environment. They cannot be run across all browsers. On the other hand, Selenium is OS independent and allows test scripts to run across all browsers.