**ASSIENMENT 4**

1 .**Which component used in load runner?**

The key components of load runner ;load generator the load aginst the application by following scripts ;VUGEM ( Virtual user generator) for generating and editing scripts ,controller controls ,launches and sequences instances of load generator –specifying which script to use ,for

**2. How can you set the number of vuser in load runner?**

You can set the number of vuser in the controller section while creating your scenario .many other advanced options like ramp –up ,ramp down of user are also available in the controller section.

**3 .How load runner interacts with the application?**

Load runner simulates user activity by generating messages between application components or by simulating interactions with y he user interface such as key presses or mouse movement s. the messages and internee actions to be generated are stored in scripts.

4. **How many vuser 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.

**5 .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.

**6. WHAT IS Automation testing?**

Automation Testing is **a software testing technique that performs using special automated testing software** tools to execute a test case suit. Automated Testing is a technique where the Tester writes scripts on their own and uses suitable Software or Automation Tool to test the software. It is an Automation Process of a Manual Process. It allows for executing repetitive tasks without the intervention of a Manual Tester.

**7. What are the benefits of automation testing?**

-70% faster than the manual testing

-Wider test coverage of application features

-Reliable in results

-Ensure Consistency

-Saves Time and Cost

-Improves accuracy

-Human Intervention is not required while execution

-Increases Efficiency

-Better speed in executing tests

-Re-usable test scripts

-Test frequently and thoroughly

-More cycle of execution can be achieved through automation

-Early time to market**8. what are the advantage of selenium?**

Advantages of Selenium-selenium is an open-source automation testing tool and it is free of cost to use. Selenium provides high tester flexibility to write advanced and complex test cases. Supports test case execution on multiple operating systems such as Windows, Linux, Android, Mac, and iOS.

**Selenium is a popular open-source testing tool used for web application** testing.

9. Why tester should opt for selenium and not QTP?

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| Selenium | QTP |
| 1. Open source, free to use, and free of charge. | Commercial |
| Highly extensible | Limited add-ons |
| Can run tests across different browsers | Can only run tests in Firefox , Internet Explorer and Chrome |
| Supports various operating systems | Can only be used in Windows |
| Supports mobile devices | Supports mobile devise using 3rd party software |
| Can execute tests in parallel. |  |
| Can execute tests while the browser is minimized to be visible on the desktop | Needs to have to have the application under test |
|  | Can only execute in parallel but using Quality Centre which is again a paid product. |
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