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**DIPLOMA SOFTWARE TESTING AND AUTOMATION(SELENIUM)**

**ASSIGNMENT: MODULE-4**

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| Q-1 | Which components have you used in Load Runner? |
| ANS | Load Runner has 4 Components: Virtual Generator, Analyzer, Controller and Load Generator. |
| Q-2 | How can you set the number of Vusers in Load Runner? |
| ANS | 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. |
| Q-3 | What is Correlation? |
| ANS | Correlation test is used to evaluate the association between two or more variables. |
| Q-4 | What is the process for developing a Vuser Script? |
| ANS | There are 5 steps for developing a vuser script. 1-recording the vuser script . 2-edit the vuser script. 3-runtime setting . 4-run the vuser script in stand-alone mode. 5-incorporate the vuser script into a load runner scenario. |
| Q-5 | How Load Runner interacts with the application? |
| ANS | LoadRunner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as key presses or mouse movements. The messages and interactions to be generated are stored in scripts. |
| Q-6 | How many VUsers are required for load testing? |
| ANS | 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. |
| Q-7 | What isthe relationship between Response Time and Throughput? |
| ANS | 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. |
| Q-8 | To test the Performance testing on “Tops Technologies website” :- https://www.saucedemo.com/  1. to Record all top level menu 2. to Record minimum 10 Vuser on this website 3. save all (Script,Design,Graph) |
| ANS | https://github.com/MPatel004/Mihir\_Tops/tree/main/Assignment/Module-4/MODULE-4 |
| Q-9 | create a normal script of above website with correlate using hp default website. |
| ANS | https://github.com/MPatel004/Mihir\_Tops/tree/main/Assignment/Module-4/MODULE-4 |
| Q-10 | What is Automation Testing? |
| ANS | **Automation Testing** is a software testing technique that performs using special automated testing software tools to execute a test case suite. On the contrary, Manual Testing is performed by a human sitting in front of a computer carefully executing the test steps. |
| Q-11 | Which Are The Browsers Supported By Selenium Ide? |
| ANS | Selenium is a free (open source) automated testing suite for web applications  across different browsers and platforms.  ⚫ It is quite similar to HP Quick Test Pro (QTP) only that Selenium focuses  on automating web-based applications. |
| Q-12 | What are the benefits of Automation Testing? |
| ANS | * Faster Feedback Cycle. ... * Testing on Multiple Platforms in Parallel. ... * Reusability of Test Scripts. ... * Easy Data-driven Testing. ... * Test Insights. ... * Maximum Test Coverage. ... * 24X7 Test Execution. ... * Scalability. |
| Q-13 | What are the advantages of Selenium? |
| ANS | * Acts as a powerful antioxidant. Share on Pinterest. ... * May reduce your risk of certain cancers. ... * May protect against heart disease. ... * Helps prevent mental decline. ... * Is important for thyroid health. ... * Boosts your immune system. ... * May help reduce asthma symptoms. |
| Q-14 | Why testers should opt for Selenium and not QTP? |
| ANS | 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. |
| Q-15 | To validate the tops technologies website Contact us page and enter your friend detail at last “Login and sidemenu” https://www.saucedemo.com/ |
| ANS |  |