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

* **Load Generator** generates the load against the application by following scripts
* **VuGen**  (Virtual User Generator) for generating and editing scripts
* **Controller** controls, launches and sequences instances of Load Generator - specifying which script to use, for how long etc. During runs the Controller receives real-time monitoring data and displays status.
* **Agent process** manages connection between Controller and Load Generator instances.
* **Analysis** assembles logs from various load generators and formats reports for visualization of run result data and monitoring data.

**Que.2 How can you set the number of Vusers in Load Runner?**

* Edit the .lrp file that corresponds to the protocol you use to create VuGen Script. Paste MaxThreadPerProcess=10 after [Vugen]. Or edit this variable if it already exists.

**Que.3What 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. Correlation can be used for various data sets, as well. In some cases, you might have predicted how things will correlate, while in others, the relationship will be a surprise to you. It's important to understand that correlation does not mean the relationship is causal.
* Understanding and analyzing various correlations can be beneficial across different industries. For example, if you own a bakery, you might decide you'll make more coconut maple donuts on Fridays based on the correlation between coconut maple donut demand and the day of the week. Though there was a causal relationship in this circumstance, it's important to note that won't always be the case. All in all, knowing the correlation between two variables can help you make decisions that could positively impact your business. Calculating correlation is especially helpful if you're an investment manager or analyst.

**Que.4What is the process for developing a Vuser Script?**

* 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.

**Que,5How Load Runner interacts with the application?**

* LoadRunner simulates user activity by generating messages between application components or by simulating interactions with the user interface such as keypresses or mouse movements. The messages and interactions to be generated are stored in scripts.
* There are two types of a content check which can be used in LoadRunner: Text Check: This checks for a text/string on the web page. Image Check: This checks for an image on a web page.
* supporting environment for load runner:- Client server: MS SQL ,ODBC, oracle web applications11i,DB2 ,windows sockets and DNS protocols. E-business: FTP ,LDAP, Palm, web( HTTP/HTML), web services and dual web/win sockets protocols. Enterprise java beans- EJB testing and RMI -java protocols.

**Que.6 How many VUsers are required for load testing?**

* If your only goal is to simulate a certain number of transactions in a certain time period, you can do that with quite few virtual users in the test.
* If your average transaction time for 7 transactions is 16 seconds it means you can do 7/16 transactions per second, using a single virtual user.
* To get 10,000 transactions in an hour you would have to use multiple concurrent virtual users.

**Que.7What 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

**Que. 8What is the difference between hits/second and requests/second?**

* Hits/second are the numbers of HTTP requests made by VUsers0 to the Web Server in a scenario or session step run on a per second basis. Requests/second are the numbers of requests completed during each second of scenario run.

**Question .9}create a normal script of above website with correlate using hp default website**

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**Que.10** What is Automation Testing?

* As software is being developed, it’s tested to ensure everything works properly and identify bugs, vulnerabilities, or other issues. Testing can be done manually (and it often is), but manual testing is repetitive and time-consuming. So, developers turn to automation testing.
* automation testing is both practical and cost-effective. As the name suggests, it involves automating the testing process and the management and application of test data and results to improve software

Que.**11Which Are The Browsers Supported By Selenium Ide?**

* Selenium IDE (Integrated Development Environment) is primarily a record/run tool that a test case developer uses to develop Selenium Test cases. Selenium IDE is an easy-to-use tool from the [Selenium Test Suite](https://www.browserstack.com/selenium) and can even be used by someone new to developing automated test cases for their web applications. One does not require any special setup to get started with Selenium IDE. You just need to add the extension of your specific browser. Selenium IDE provides you with a GUI (Graphical User Interface) for easily recording your interactions with the website.
* Selenium IDE allows a user or a test case developer to create the test cases and test suites and edit it later as per their requirements. The development environment also provides the capability of converting test cases to different programming languages, which makes it easier for the user and does not mandate the need for knowing a specific programming language.

**Que.13 What are the benefits of Automation Testing?**

* Seamless accuracy
* Better test results reporting
* Improved test case coverage
* Easy and quick bug detection
* Test case reusability

**Que.14What are the advantages of Selenium?**

* peed: Selenium automates test execution, significantly speeding up the testing process.
* Accuracy: It provides precise and consistent test execution.
* Repeatability: It allows for repeated test execution with the same input and expected output.
* Scalability: It is highly scalable, allowing test cases to be easily expanded, modified, and reused.
* Cost-effectiveness

**Que.15Why 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.

**(selenium java script)**

[https://github.com/jp3636928/janvi\_teasting\_tops/blob/main/test case java.txt](https://github.com/jp3636928/janvi_teasting_tops/blob/main/test%20case%20%20java.txt)