Q1. What is software testing?

Ans…***Software Testing*** is the process of identifying the ***correctness and quality*** of software program. The purpose is to check whether the software satisfies the specific requirements, needs and expectations of the customer. In other words, testing is executing a system or application in order to find software***bugs, defects or errors***.

Q2.What is automation testing?

Ans… **Automation testing** is a Software **testing** technique to **test** and compare the actual outcome with the expected outcome. This can be achieved by writing **test scripts** or using any **automation testing** tool. **Test automation** is used to **automate** repetitive tasks and other **testing** tasks which are difficult to perform manually.

Q3.When will you automate a test?

Ans…

i)To Optimize the Speed & Efficiency.

ii)To Increase the Quality and Decrease the Cost. ...

iii)When there is a repetition or a need to run the test cases a lot number of times in a test cycle.

iv)When there are number of test cases under one test-suite

v)When you need to run the same test cases on different machiness at the same time.

vi)Regression , Smoke and Sanity tests.

Q4. When will you not automate testing?

Ans…i)Test that need to be run ASSAP

ii) Test that you will run for one time

iii) Test that require Adhoc – Random testing based on domain knowledge/experience

iv) When the Application Under Test changes frequently

Q5. What are the steps involved in the Automation Process?

Ans…In the automation process, steps involved are

i) Selecting the Test tool

ii) Define scope of automation

iii) Planning, design, and development

iv) Test execution

v)Reporting

vi) Maintenance

Q6. What are the points that are covered while planning phase of automation?

Ans…During the test planning phase, the testing team decides

1. The test procedure creation standards and guidelines;
2. Selection the "right" Automation tool;
3. hardware; software and network to support test environment;
4. A preliminary test schedule; test data requirements;
5. Defect tracking procedure and associated tracking tool and a procedure to control test
6. Preparing Grant Chart of Project timelines for test script development & execution.
7. Identify Test Deliverables

Q7. In what condition we cannot use automation testing for the Agile method?

Ans…

i)When Agile testing always ask for changes in requirements

ii) When Exhaustive level of documentation is required in Agile

iii) Only suitable for those regression tests during agile testing like continuous integration

Q8. What are the primary features of good automation tool?

Ans…

i)Test Environment support and easy to use.

ii)Good debugging facility.

iii)Robust **object** identification.

**iv)Object** and Image testing abilities.

**v)Object** identification.

vi)Testing of database.

vii)Support multiple frameworks.

Q9. What are the types of the framework used in software automation testing?

Ans…In software automation testing four types of framework used are

i)Data-driven automation framework

ii) Keyword driven automation framework

iii) Modular automation framework

iv) Hybrid automation framework

v) Linear automation framework

10) What is the scripting standard while performing automation testing?

While writing the scripts for automation, you must consider following things,

i) Uniform naming convention.

ii)3 Lines of comments for every 10 lines of code

iii)Adequate indentation.

iv)Robust error handling and recovery scenario

v)Use of Frameworks wherever possible

10) What are the most popular tools for automation testing?

The most popular test tool for automation testing are

i) Selenium

ii) QTP (HP UFT)

iii)Rational Robot

iv)Watir

v)Cucumber

vi)Renorex

11) On what basis you can map the success of automation testing?

By following criteria, the success of automation testing can be mapped

i) Defect Detection Ratio

ii)Automation execution time and time savings to release the product

iii)Reduction in Labour & other costs

12) Can list out some disadvantages of manual testing?

Ans…

i)Manual Software Testing requires more time and more resources.

ii) Human factor – real QA can make a mistake;

iii)Executing same test case repeatedly is error prone and boring.

iv)Impossible to do performance test – real QA cannot simulate a large number of users;

v)Expensive and slow in the long-term

13) Tell me what you know about Selenium?

Ans…SELENIUM is a free (open-source) tool and a automated testing framework which is used to validate web applications across different browsers and platforms. You can use multiple programming languages like Java, C#, Python , Ruby ,Javascript,Perl etc to create Selenium Test Scripts.

**It has four components/flavours namely**,

1. Selenium IDE (Browser Addon – Record and Playback Tool)

2. Selenium WebDriver

3. Selenium Grid (Distributed Testing)

4. Selenium RC

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14) Tell me about QTP

QTP (Quick Test Professional) is now known as HP UFT. It is a commercial automation tool and supports a very wide range of test environments Web, Desktop, SAP, Delphi, Net, ActiveX, Flex, Java, Oracle, Mobile, PeopleSoft, PowerBuilder, Siebel, Stingray, Visual Basic amongst others.

**QTP** test scripts are written only in VBScript which is an active scripting language developed by Microsoft and the test scripts cannot be written in any simple programming language whereas **Selenium** test scripts are written **in the** simple user-friendly programming languages like Java, Python, C#,Ruby,Perl.

Salient features of QTP include Business Process Testing, keyword driven framework, XML support, robust checkpoints, test results.

15) Explain what Sikuli is?

Sikuli is a tool that uses "Visual Image Match" method to automate graphical user interface. All the web elements in Sikuli should be taken as an image and stored inside the project.

Sikuli is comprised of

\* Sikuli Script

\* Visual Scripting API for Jython

\* Sikuli IDE

Practical uses of Sikuli is that

\* It can be used to automate flash websites or objects

\* It can automate window based application and anything you see on screen without using internal API support

\* It provides simple API

\* It can be easily linked with tools like Selenium

\* Desktop application can be automated

\* Sikuli offers extensive support to automate flash objects

\* To automate desktop, it uses powerful "Visual Match" and Flash objects

\* It can work on any technology-.NET, Java