Selenium interview questions

**Q #1) What is Automation Testing?**

- Automation tests are like write once and execute many time.

- Automation tests are created two avoid/reduce manual test efforts.

**Q #2) What are the benefits of Automation Testing?**

* Less man power.
* Execute tests with accuracy.
* Can be used for regression testing.
* write once and execute many times, which will reduce the manual test efforts.

**Q #3) Why should Selenium be selected as a test tool?**

- Its a open source, and free tool.

- it supports multiple browsers.

- it supports multiple plat forms.

- its supports multiple programming languages.

**Q #4) What is Selenium? What are the different Selenium components?**

- Its an automation tool used for automating web application.

- Selenium IDE, Web Driver, Remote Control , and GRID,

**Q #5) What are the testing types that can be supported by Selenium?**

- Functional testing

- Regression Testing

**Q #6) What are the limitations of Selenium?**

- It can not automate desktop application.

**Q #7)** **What is the difference between Selenium IDE, Selenium RC and WebDriver?**

Selenium ide is a record and play back tool.

Selenium RC is used to interact with the web application through the automation code written by selenium RC Libraries and Java.

- RC is out dated, no one using RC.

- To work with RC, you should start Selenium Stand alone Server.

Selenium WebDriver is used to interact with the web application through the automation code written by selenium web driver Libraries and Java.

- Web Driver is currently used by the software industries.

- To work with Web Driver, you don’t need Selenium Stand alone Server.

**Q #8) When should I use Selenium IDE?**

- i know how to work with selenium IDE, but i usually i do not use selenium ide.

**Q #9) What is Selenese?**

- selenese commands are selenium IDE commands. such as open, type, click , select, click and wait, close.

**Q #10)** **What are the different types of locators in Selenium?**

- id, name, class name, tag name, x-path, css, link text, partial link text

**Q #11)** **What is difference between assert and verify commands?**

- when assert executed, and if the assertion is failure the test will stop execute.

- when verify executed, and if the verification is failure the test will continue to execute, but at the end the test considered as failure.

**Q #12) What is an Xpath?**

- x-path is nothing but xml path

- its one of the selenium locator used to identify a Web Element

* X-path is of two types absolute and relative x-path.

**Q #13) What is the difference between “/” and “//” in Xpath?**

- “/“ is represent immediate child element of an element

- “//“ is to represent all the child elements of an element

**Q #14) What is Same origin policy and how it can be handled?**

**Q #15)** **When should I use Selenium Grid?**

- To run test cases in distribution mode, to reduce the test execution time.

**Q #16) What do we mean by Selenium 1 and Selenium 2?**

selenium-1 is about remote control

selenium-2 is about selenium web driver.

**Q #17) Which is the latest Selenium tool?**

- Latest Version 3

**Q #18) How do I launch the browser using WebDriver?**

System.setProperty("webdriver.gecko.driver", “/Users/gecko/geckodriver");

WebDriver driver = new FireFoxDriver();

**Q #19) What are the different types of Drivers available in WebDriver?**

* HTMLUnitDriver
* FireFoxDriver
* InternetExplorerDriver
* ChromeDriver
* SafariDriver
* OperaDriver

**Q #20) What are the different types of waits available in WebDriver?**

* implicit wait
* explicit wait
* fluent wait

**Q #21)** **How to type in a textbox using Selenium?**

FireFoxDriver driver = new FireFoxDriver();

WebElement element = driver.findElement(By.name(“user1”);

element.sendKeys(“sudheer”);

**Q #22)** **How can you find if an element in displayed on the screen?**

FireFoxDriver driver = new FireFoxDriver();

WebElement element = driver.findElement(By.name(“user1”);

boolean result = element.isDisplayed();

boolean result = element.isEnabled();

**Q #23)** **How can we get a text of a web element?**

FireFoxDriver driver = new FireFoxDriver();

WebElement element = driver.findElement(By.name(“user1”);

String text = element.getText();

**Q #24) How to select value in a dropdown?**

FireFoxDriver driver = new FireFoxDriver();

WebElement element = driver.findElement(By.name(“city”);

Select city =new Select(element);

city.selectByIndex();

city.selectByVisibleText();

city.selectByValue();

**Q #25) What are the different types of navigation commands?**

**Naviagation nav = driver.navigate();**

**nav.to(“url”);**

**nav.back();**

**nav.forward();**

**nav.refresh();**

**//driver.navigate().back();**

**Q #26) How to click on a hyper link using linkText?**

FireFoxDriver driver = new FireFoxDriver();

WebElement element = driver.findElement(By.linkText(“city”);

element.click();

**Q #27)** **How to**[handle frame in WebDriver](http://www.softwaretestinghelp.com/selenium-tutorial-18/)**?**

driver.switchTo().frame(index);

driver.switchTo().frame(String name/id);

driver.swtichTo().frame(WebElement element);

driver.switchTo().defaultContent(); // is to come out frame and to the root

**Q #28) When do we use findElement() and findElements()?**

**Q #29)** **How to find more than one web element in the list?**

**Q #30) What is the difference between driver.close() and driver.quit command?**

close - will close the current browser

quit - will close all the opened browsers by selenium

**Q #31) Can Selenium handle windows based pop up?**

- Yes

**Q #32) How can we handle web based pop up?**

unlike windows alerts, the pop up elements can be inspectable.

find the element on the popup using driver.findElement method,

work on those elements.

**Q #33) How can we handle windows based pop up?**

Alert alert = driver.switchTo().alert();

alert.sendKeys("Hi Prompt");

alert.accept();

alert.dismiss();

String str = alert.getText();

**Q #34) How to assert title of the web page?**

driver.getTitle()

**Q #35) How to mouse over on a web element using WebDriver?**

Actions action = new Actions(driver);

actions.contextClick(WebElementObj);

actions.build().perform();

**Q #36) How to retrieve css properties of an element?**

webElement.getCssValue("font-family");

**Q #37) How to capture screenshot in WebDriver**

File srcFile = ((TakesScreenshot) driver).getScreenshotAs(OutputType.FILE);

FileUtils.copyFile(srcFile, new File("main.png"));

**Q #38) What is Junit?**

**Q #39) What are Junit annotations?**

**Q #40)** **What is TestNG and how is it better than Junit?**

**Q #41)** **How to set test case priority in TestNG?**

**Q #42) What is a framework?**

**Q #43)** **What are the advantages of Automation framework?**

**Q #44) What are the different types of frameworks?**

**Q #45) How can I read test data from excels?**

**Q #46) What is the difference between POI and jxl jar?**

**Q #47)** **What is the difference between Selenium and QTP?**

* QTP can be used for web, and windows where as selenium is for only web.
* You need to vb.script to write automation script for QTP, and for selenium you can use multiple programming languages.
* QTP can be installed only on windows, selenium can be on any platform.
* QTP can supported only firefox,ie where as selenium supports all browsers.
* QTP is paid, but selenium is free tool.

**Q #48) Can WebDriver test Mobile applications?**

* No.
* AppiumDriver - for both iOS and Android
* iOSDriver
* AndroidDriver
* AppiumDriver driver = new iOSDriver();
* AppiumDriver driver = new AndroidDriver();
* IOSDriver driver = new IOSDriver();
* AndroidDriver driver = new AndroidDriver();

**Q #49) Can captcha be automated?**

**Q #50) What is Object Repository? How can we create Object Repository in Selenium?**

**Q #51) what are the different methods you know in WebElement?**

String getAttribute(String attributeName)

String getCSSValue(String cssName)

String getTagName()

boolean isDisplayed()

boolean isEnabled()

boolean isSelected()

String getText()

Point getLocation()

Dimension getSize()

void click()

void clear()

void sendKeys(String text)

**Q #52) how to handle multiple windows?**