**Selenium Interview Questions and Answers  
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**SELENIUM INTERVIEW QUESTION ANSWERS:**

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**1.What is Automation Testing and benefits?**

**============================================**

**\*Test Automation is a process that makes use of automation testing tools to execute pre-scripted tests on applications, then compares the test results to the expected behavior and reports it to the testers.**

**Benefits:**

**---------**

**\*It execute tasks automatically**

**\* increase effectiveness**

**\*efficiency**

**\*coverage of the software testing.**

**2.Why should Selenium be selected as a test tool?**

**==================================================**

**\*Selenium is an open source automation testing tool which is used to test web applications.**

**\*Selenium testing tool is also consists of different set of tools in it like Selenium WebDriver, Selenium RC, Selenium IDE which has different features.**

**3.What is Selenium? What are the different Selenium components?**

**================================================================**

**\*Selenium is a portable software testing framework for web application.**

**\*Selenium provides a playback tool for authoring tests without need to learn a test scripting languages.**

**Different selenium components:**

**------------------------------**

**\*Selenium IDE**

**\*Selenium RC**

**\*Selenium Webdriver**

**\*Grid**

**4.What is the difference between Selenium RC, and WebDriver?**

**=============================================================**

**Selenium RC:**

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**\*It doesnot make direct calls to the browser using each browser's native support for automation.**

**Selenium Webdriver:**

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**\*It doesnot make direct calls to the browser using each browser's native support for automation.**

**5.What is the latest version of selenium jar file and how you will configure selenium jar file with eclipse?**

**=============================================================================================================**

**Latest version:**

**---------------**

**\*3.14.0**

**Configure jar file:**

**--------------------**

**\*We have to give add to build path for configuration.**

**6.Can Google Chrome will be supported by Selenium IDE?**

**=======================================================**

**\*No,Google Chrome will not be supported by Selenium IDE.**

**7.What are the different browsers supported by selenium?**

**==========================================================**

**\*Firefox browser**

**\*Chrome browser**

**\*IE**

**\*safari browser**

**\*Opera browser**

**8.What is the Classname,driver name for the below browsers?**

**===========================================================**

**ClassName Driver**

**------------- ---------**

**1.Firefox browser-->FireFoxDriver**

**2.Chrome browser -->ChromeDriver**

**3.IE -->InternetExplorerDriver**

**4.safari browser -->SafariDriver**

**5.Opera browser -->OperaDriver**

**9.What is the WebDriver ? Whether WebDriver is class or interface?**

**===================================================================**

**\*Webdriver is a web automation framework that allows you to execute your tests againts different browser,not just firefox.**

**\*Webdriver also enables you to use a programming languages in creating your test script.**

**\*Webdriver is a interface.**

**10.What is the method name to launch the url?**

**=============================================**

**\*get()- used to lanuch the url.**

**11.What are the Method names to get the title and current URL?**

**===============================================================**

**\*getTitle()- used to get the title of the webpage.**

**\*getCurrentUrl()-used to get the current url of the webpage.**

**12.What is the difference between close() and quit()?**

**======================================================**

**close():**

**--------**

**\*It will close the current window only.**

**quit():**

**-------**

**\*It will close all opening window and browser.**

**13.What are the methods available in webdriver?**

**================================================**

**\*close();**

**\*findElement();**

**\*findElements();**

**\*get();**

**\*getTitle();**

**\*getCurrentUrl();**

**\*manage();**

**\*quit();**

**\*switchTo();**

**14.What is the use of WebDriver?**

**==================================**

**\*It is mainly used for providing the connection between the browser and local system.**

**\*It act as a bridge.**

**15.What are the locator available in selenium?**

**===============================================**

**\*id**

**\*classname**

**\*name**

**\*Xpath**

**\*CSS selector**

**\*link Text**

**\*partially Link Text**

**\*tagname**

**16.Which locator is fastest in selenium?**

**=======================================**

**\*id is the fastest locator in selenium.**

**17.How will you find the locators in selenium? write a code for it?**

**===================================================================**

**\*We can find the locator by using findElement(),findElements() methods.**

**Code**

**-----**

**driverrefname.findElement(By.locator("values");**

**18.Explain about findElement & findElements?**

**=============================================**

**\*Both are used to find the webelement from the webpage.**

**\*findElement find one webelement.**

**\*findElements find the list of web element.**

**19.Difference between findElement and FindElements?**

**===================================================**

**findElement**

**------------**

**\*It find only one webElement.**

**\*If no element is found it throws no such element exception.**

**findElements**

**-------------**

**\*It finds a list of webElement.**

**\*findElements will return an empty array when no elements found**

**20.What is the return type of findElement and findElements?**

**===========================================================**

**\*findElement - WebElement**

**\*findElements - List<WebElement>**

**21.In which class all the locator methods are available?**

**=========================================================**

**\*In By class all the locator methods are available.**

**22.What is method to insert a value in textbox?**

**=================================================**

**\*sendKeys() method is used to insert a value in textbox.**

**23.Write a code for inserting value in textbox?**

**================================================**

**\*WebElementRefname.sendKeys("values");**

**24.Whether in finding the locator index will start from 0 or 1?**

**=================================================================**

**\*For selecting first locator we pass 1 in the index.**

**25.How will you click a button in webpages?**

**============================================**

**\*By using click() method we can click a button in webpage.**

**26.Whether WebElement is a interface or class?**

**===============================================**

**\*WebElement is a interface.**

**27.What is mean by System.setProperty?**

**========================================**

**\*System is a class.**

**\*.setProperty is a method in this we have to pass key and value.**

**\*It is used to set the class and path location of driver.**

**28.What is Xpath? Why we are going for Xpath?**

**==============================================**

**\*Xpath is one of the locator available in webpage.**

**Reason for going to Xpath:**

**---------------------------**

**\*For validating the locator.**

**\*When id,classname,name is not present.**

**29.What are the Types of Xpath?**

**===============================**

**\*Absolute Xpath**

**\*Relative Xpath**

**30.What is the difference between Absolute xpath and Realtive Xpath?**

**====================================================================**

**Absolute Xpath:**

**---------------**

**\*It contain \**

**\*It find the webelement from the top of the downstrom.**

**Relative Xpath:**

**---------------**

**\*It contain \\**

**\*It find the webElement from that particular tag.**

**31.What are the differenece between / and // ?**

**\ :**

**---**

**\*It means absolute Xpath**

**\*It find the webelement from the top of the downstrom.**

**\\:**

**----**

**\*It means Relative Xpath \\**

**\*It find the webElement from that particular tag.**

**32.What is the difference between Radio and CheckBox button?**

**=============================================================**

**Radio Button:**

**--------------**

**\*For Radio button we have to select atleast one option.**

**\*we have to select only one option.**

**\*for deselecting we have to selct the another option present.**

**Check Box:**

**----------**

**\*For check box no need to select atleast one option.**

**\*we can select more than one option.**

**\*for deselecting we have to selct the same option one more time.**

**33.What is the method used to perform click?**

**============================================**

**\*click() method is used.**

**34.What are the Xpath function?**

**===============================**

**\*text()**

**\*contains()**

**35.How will you select a female Radio Button in facebook signup and write a code for it ?**

**=========================================================================================**

**\*WebElement feBtn=driverREf.findElement(By.Xpath("//input[@value='1']");**

**feBtn.click();**

**36.Write a code for performing Radio Button and CheckBox button click using Base Class?**

**=========================================================================================**

**\*Public Static void btnClick(WebElement element){**

**element.click();**

**}**

**37.What is mean by Stale Element Exception?**

**===========================================**

**\*Stale Element means an old element or no longer available element. Assume there is an element that is found on a web page referenced as a WebElement in WebDriver.**

**\*If the DOM changes then the WebElement goes stale. If we try to interact with an element which is staled then the StaleElementReferenceException is thrown.**

**38.What is the purpose of debug?**

**================================**

**\*It is the step by step verification.**

**\*We can easily identify the step where the code getting exception.**

**39.What are the steps to be debug?**

**===================================**

**\*Set the break point**

**\*Click the shortcut key F6 for stepOver.**

**\*just right click-->debug us-->java application.**

**40.What are the types of debug?**

**================================**

**\*Eclipse debugger.**

**\*Firefox javaScript debugger.**

**\*Dynamic debugging technique**

**\*On line debugging tool.**

**41.How to take a locator which contain no attribute?**

**================================================**

**\*By using xpath function text()**

**//tagname[text()='textname']**

**42.How to print a paragraph from webpage?**

**==========================================**

**\*By using xpath function text()**

**//tagname[text()='textname']**

**\*By using getText() method we can get the text**

**System.out.Println(webElemRef.getText());**

**43.What are the methods to get and print the text from webpage?**

**===============================================================**

**\*getText() method is used to print and get the text from webpage.**

**44.What is the purpose of getText() and getAttribute() ?**

**========================================================**

**\*getText() method is used to print and get the text from webpage.**

**\*getAttribute() method is used to get the values from the attribute.**

**\*getAttribute() also used to get the input what we are giving.**

**45.What is the return type of getText() and getAttribute() ?**

**============================================================**

**\*String is return type of both methods.**

**46.In which class getText() and getAttribute() ?**

**=================================================**

**\*In WebElement interface this methods are present.**

**47.What are the difference between getText(),getAttribute()?**

**=============================================================**

**getText()**

**----------**

**\*print or get the text present in webpage.**

**\*Example:webElement.getText();**

**getAttribute()**

**--------------**

**\*used to get the text in attribute tag.**

**\*Example:webElement.getAttribute("value");**

**48.Whether it is possible to getText from webpage without using getText()?**

**========================================================================**

**\*No,it is not possible to getText from webpage without using getText().**

**49.What is MouseOverAction?**

**===========================**

**\*When we place a mouse on some option it will display a list of subOption.**

**\*For mouseOverAction we can use Actions class.**

**50.Write a code to perform MouseOverAction?**

**=============================================**

**\*Actions refName= new Actions(driver refName);**

**refName.moveToElement(WebElementrefName).perform();**

**51.Whether Actions is a class or Interface?**

**==========================================**

**\*Actions is a class.**

**52.How will you perform Drag and drop?**

**=======================================**

**\*Actions refName= new Actions(driver refName);**

**refName.dragAndDrop(weSrcrefName,wedestrefName).perform();**

**53.what is the use of the Actions class?**

**=======================================**

**\*Actions class is used to perform mouseOverAction,dragAndDrop,rightClick,doubleClick.**

**\*This class will contain more methods for performing mouse actions.**

**54.What is the purpose of Drag and Drop?**

**=========================================**

**\*For minimize the time required for the copy and paste.**

**55.In which class dragAndDrop method is available?**

**====================================================**

**\*Actions-class**

**56.Why we use .perform()?**

**==========================**

**\*The menu list disappear with in the fractions of seconds before Selenium identify the next submenu item and perform click action on it.**

**\*SO,it is better to use .perform() method.**

**57.What is the purpose of moveToElement()? where it is used?**

**=============================================================**

**\*moveToElement() method will move to the particular element.**

**\*It is mainly used in actions class performance.**

**58.In which class moveToElement() is present?**

**===============================================**

**\*Under Actions class moveToElement() is present.**

**59.What are methods available in Actions class ?**

**=================================================**

**\*moveToElement();**

**\*ContextClick();**

**\*doubleClick();**

**\*dragAndDrop();**

**60.What is the difference between moveToElement() & switchTo()?**

**===============================================================**

**\*moveToElement() will move to that particular element.**

**\*switchToElement() will move to alert,different windows,frames.**

**61.What is mean by Robot class?**

**===============================**

**\*Robot class is a class which is used to perform the keyboard action in java.**

**\*It is present in java.awt package.**

**\*It contain two methods keyPress and keyRelease**

**62.What are the purpose of Robot class?**

**=======================================**

**\*Used for performing the keyboard action.**

**63.Write a code for Robot class?**

**=================================**

**\*Robot refname = new Robot();**

**refname.keyPress(KeyEvent.vk\_anykeyyouwant);**

**refname.keyRelease(KeyEvent.vk\_anykeyyouwant);**

**vk-->virtual key**

**64.In which package Robot class is available?**

**==============================================**

**\*java.awt**

**65.what exception Robot class throws?**

**=====================================**

**\*AWT Exception**

**66.Which method is used to perform rightClick?**

**=================================================**

**\*contextClick() method is used to perform rightClick.**

**67.Which method is used to perform doubleClick?**

**==================================================**

**\*doubleClick() method is used to perform doubleClick.**

**68.How will take a screenshot of webpage?**

**============================================**

**\*By using of TakeScreenShot and getScreenShotAs() method.**

**69.Whether TakeScreenShot is a class or interface?**

**==================================================**

**\*TakeScreenShot is a interface.**

**70.In which place the screenShot will store in default?**

**========================================================**

**\*OutputType.FILE**

**71.What are the methods used for scrollUp and scrollDown ?**

**==========================================================**

**\*executeScript() method is used to scrollup and scroll down.**

**72.Whether JavascriptExecutor is a class or interface?**

**==============================================**

**\*JavascriptExecutor is a interface.**

**73.How can we peform Drop Down action ?**

**========================================**

**\*By using Select class.**

**74.Whether Select is a interface or class?**

**==========================================**

**\*Select is a class.**

**75.Write a code to print all the options in DropDown?**

**=======================================================**

**\*getOptions() method is used to print all options in dropdown.**

**76.Can we select multiple values in DropDown?**

**=============================================**

**\*Yes,we can select multiple values in DropDown.**

**77.How will you select multiple values in DropDown?**

**===================================================**

**\*By ckecking where the Multiple tag is present or not.**

**78.What are the methods available in select?**

**============================================**

**\*selectByValue();**

**\*selectByVisibleText();**

**\*selectByIndex();**

**\*getOptions();**

**\*getAllSelectedoptions();**

**\*getFirstselectedoptions();**

**\*isMultiple();**

**\*deSelectByValue();**

**\*deSelectByVisibleText();**

**\*deSelectByIndex();**

**\*deSelectAll()**

**79.can we deselect the options in DropDown?**

**============================================**

**Yes, we can deselect the options in DropDown.**

**80.Write a code to print selected options in DropDown?**

**=======================================================**

**\*By using getAllSelectedoptions() method we can print selected options.**

**Select refName = new Select();**

**refName.getAllSelectedoptions();**

**81.Write the return type of all methods available in Select?**

**==============================================================**

**\*selectByValue() -void**

**\*selectByVisibleText() -void**

**\*selectByIndex() -void**

**\*getOptions() -List<WebElement>**

**\*getAllSelectedoptions() -List<WebElement>**

**\*getFirstselectedoptions() -WebElement**

**\*isMultiple() -boolean**

**\*deSelectByValue() -void**

**\*deSelectByVisibleText() -void**

**\*deSelectAll() -void**

**\*deSelectByIndex -void**

**82.What is the purpose of windows Handling?**

**============================================**

**\*Whenever we want to switch to next window are perform action in new window we have to use window handling.**

**\*Simply use to maintain the multiple windows.**

**83.Write a code to perform windows Handling?**

**==============================================**

**\*driverRefName.switchTo.getWindowsHandles();**

**84.What are the different types of arguments you pass in windows()?**

**===================================================================**

**\*id**

**\*url**

**\*title**

**85.Write a code to switch to 8 th child window?**

**===============================================**

**List<String> allWindowsId=(List<String>)driver.getWindowHandles();**

**driver.SwitchTo().window(allWindowsId.get(7));**

**86.What is the mean by webtable?**

**================================**

**\*Table present in webpage is webtable.**

**\*It starts and ends with <table> and</table>.**

**\*The web table contain <tr> <td> <th> tags.**

**87.Write a code to display all the Column Name in table?**

**========================================================**

**\*List<WebElement> rowRef=driver.findElements(By.tagname("tr"));**

**for(int i=o;i<ref.size();i++)**

**{**

**List<WebElement> heaRef=driver.findElements(By.tagname("th"));**

**String name= heaRef.getText();**

**sysout(name);**

**}**

**88.Write a code to display all the data in table?**

**=================================================**

**List<WebElement> rowRef=driver.findElements(By.tagname("tr"));**

**for(int i=o;i<ref.size();i++)**

**{**

**List<WebElement> heaRef=driver.findElements(By.tagname("td"));**

**for(int j=0;j<heaRef.size();j++){**

**String name= heaRef.get(j).getText();**

**sysout(name);**

**}**

**}**

**89.What are the use of wait?**

**============================**

**\*Wait operation used to wait the script for some time to load the webelements**

**90.What are the types of wait?**

**================================**

**\*Implict wait**

**\*explict wait**

**\*Fluent wait**

**91.What are the difference between implict wait and explict wait?**

**=================================================================**

**Implict wait:**

**--------------**

**\*It make the whole webdriver wait for that particular time we mention.**

**\*driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS)**

**Explict wait:**

**-------------**

**\*It make the particular webelememt wait for that particular time we mention.**

**\*We can also mention the condition for which the webelement will wait.**

**\*WebDriverWait wait = new WebDriverWait(driver, 10);**

**WebElement element = wait.until(ExpectedConditions.somecondition(By.id("someid")));**

**92.What are the difference between getWindowHandle() and getWindowHandles()?**

**============================================================================**

**\*getWindowHandle() is used to represent the parent window.**

**\*getWindowHandles() is used to represent the child windows.**

**93.Write a method to print the first selected option in drop down?**

**==================================================================**

**\*getFirstSelectedOption() method used to print the first selected option in drop down.**

**94.What is mean by alert?**

**=========================**

**\*Alert is like the pop up displayed in the webpage.**

**\*For handling popup we have to use Alert interface.**

**95.What are the methods available in alerts?**

**============================================**

**\*accept();**

**\*dismiss();**

**\*sendkeys();**

**96.Whether alert is a class or interface?**

**=========================================**

**\*Alert is a interface.**

**97.Explain each word in WebDriver driver=new ChromeDriver();?**

**=============================================================**

**\*WebDriver -->Interface**

**\*driver -->reference name**

**\*new -->Keyword**

**\*ChromeDriver-->Class name**

**98.What is mean by default content in frames?**

**==============================================**

**\*It will go to main frame.**

**99.What are the different types of arguments we can pass in frames?**

**===================================================================**

**\*WebElement**

**\*Name**

**\*Id**

**\*Index**

**100.What is the purpose of isDisplayed(),isSelected(),isEnabled()?**

**==================================================================**

**\*isDisplayed()-To check whether WebElement is hidden or not.**

**\*isSelected() -To check whether checkbox ,radio box is selected or not.**

**\*isEnabled() -To check whether button and textbox is edited or not.**

**101.What is mean by Fluent Wait?**

**=================================**

**\*Each FluentWait instance defines the maximum amount of time to wait for a condition, as well as the frequency with which to check the condition.**

**\*The user may configure the wait to ignore specific types of exceptions whilst waiting, such as NoSuchElementExceptions when searching for an element on the page.**

**102.What is mean by following,sibling,child,parent,preceding in Xpath?**

**======================================================================**

**Following:**

**----------**

**\*Selects all elements in the document of the current node.**

**sibling:**

**--------**

**\*Select the following siblings of the context node. Siblings are at the same level of the current node .**

**Parent:**

**--------**

**\*Selects the parent of the current node.**

**Child :**

**-------**

**\*Selects all children elements of the current node.**

**Preceding:**

**----------**

**\*Select all nodes that come before the current node.**

**103.What is the difference between window and alerts?**

**=====================================================**

**Alerts:**

**----------**

**\*If we click a login or any button one pop-up will show like OK or Cancel.**

**\*If we click OK or Cancel, then only it will move to home window.**

**\*It has 3 types,**

**1. Simple Alert**

**2. Confirm pop-up**

**3. Prompt pop-up**

**Window:**

**--------**

**\*If we click login button, one separate window will open.**

**\*We have to switch from parent window to child window then only we can automate.**

**\*Using window handling method we can switch.**

**104.What is the difference between partial link text and link text?**

**===================================================================**

**LinkText:**

**-----------**

**\*In linktext we take all text in the locator**

**\*Example: WebElement web = driver.findElement(By.linkText("Product Category”));**

**PartialLinkText:**

**----------------**

**\*In the partial link text we take partially in the text**

**\*Example: WebElement web = driver.findElement(By.partialLinkText("Category”));**

**105.Where you used Interface in selenium?**

**=========================================**

**\*WebDriver**

**\*JavascriptExecutor**

**\*Alert**

**\*TakeScreenShot**

**106.What is broken link and how do you find it?**

**===============================================**

**\*Broken links are links or URLs that are not reachable.**

**For checking the broken links, you will need to do the following steps.**

**--------------------------------------------------------------------------**

**\*Collect all the links in the web page based on <a> tag.**

**\*Send HTTP request for the link and read HTTP response code.**

**\*Find out whether the link is valid or broken based on HTTP response code.**

**\*Repeat this for all the links captured.**

**107.What is framework, why we go for framework?**

**================================================**

**\*Famework is a code structure that helps to make code maintenance easy.**

**\*Without frameworks, we will place the “code” as well as “data” in the same place which is neither re-usable nor readable.**

**\*Using Frameworks, produce beneficial outcomes like increased code re-usage, higher portability, reduced script maintenance cost, higher code readability, etc.**

**108.What are the selenium commands?**

**===================================**

**\*Browser commands**

**\*Browser navigation commands**

**\*Web element commands**

**\*Find element commands**

**\*Check box & radio button**

**\*Drop down and multiple select**

**109.What is the difference between get() and navigate()?**

**========================================================**

**\*If we use get() method, it only launch the url.**

**\*If we use navigate() method, we can perform back(), refresh() and forword() action.**