

1. To send text to a text input field, first locate the text element with the driver. ____() command, and then enter the text value with the element. sendkeys("example value") command.

1. sine
2. sinderenent
3. getetenent
4. suitento

The correct answer is "getelementby".

2. In the "DRY design principle," DRY is an acronym for ____.

- 1 Debug, Reiterate, YAFIYGI
- 2 Don't Repeat Yourself
- 3 Deserialize Returned YAML
- 4 Docker, Ruby, Yttrium

The correct answer is "Don't Repeat Yourself".

3. ____ tests occupy the middle of the testing pyramid, with runtimes on the order of seconds or milliseconds, and ensure that multiple services work seamlessly together.

- 1 unit
- 2 smoke
- 3 Integration

The correct answer is "Integration" tests.

4. Which three factors influence the value score of a scenario in the test automation matrix?

the number of developers required to fix the feature

1. average developer hours required to implement all scenarios
2. distinctness of the scenario
3. importance of the feature
4. probability that the feature would be fixed if broken

The correct options are:

Distinctness of the scenario

Importance of the feature

Probability that the feature would be fixed if broken

5. Which choice is a continuous integration (CI) solution?

Cake

Jenkins

Apache Maven

Jest

The correct answer is "Jenkins".

6. Using the WebDriver API, browser drivers are provided by ____ for browser automation.

Other W3C specification

GitHub

browser vendors

The Selenium Project

The correct answer is "browser vendors".

7. ____ is a popular framework for writing tests and assertions in Java that can be used to run tests and confirm the expected outcome of Selenium-based workflows.

unit

chai

Mocha

Jest

The correct answer is "JUnit".

8. Code coverage is an important metric for ensuring that tests cover key areas of an application. Yet it is important not to automate just to attain 100% test coverage. What are two reasons why this is important?

1. one hundred percent automation coverage is a clearly defined goal that improves test functionality.
2. Number of lines covered is a more important metric than the importance of the scenarios being covered.
3. Coverage data is used to make informed decisions about improving test coverage rather than as a sole metric.
4. every test must add value.
5. it is important to automate to increase coverage.

The correct options are:

- **Coverage data is used to make informed decisions about improving test coverage rather than as a sole metric.**
- **Every test must add value.**

9. Implicit waits are Selenium's way of waiting for ____.

1. JavaScript function to finish
2. an element to be available
3. the browser to start
4. custom condition to evaluate to true

The correct answer is "an element to be available".

10. When designing and developing your tests, one possibility is to develop a language specific to the application or purpose of your test framework: a ____ or DSL for short.

The correct answer is "domain-specific language".

11. Which code snippet will easily and correctly enter a properly formatted date into a date picker field?

```
1. WebElement dateField = driver.findElement(By.id("datePicker"));
dateField.click();
dateField.sendKeys ("01/81/2016");
```

```
2. WebElement dateField = driver.findElement(By.id("datePicker"));
dateField.sendKeys ("18/23/2055");

3. WebElement dateField = driver.findElement(By.id("datePicker"));
dateField.sendKeys ("03/17/1989");

4. WebElement dateField = driver.findElement(By.id("datePicker"));
dateField.sendKeys ("09/21/1978");
dateField.sendKeys(Keys.RETURN);
```

Option 3 is the correct choice, as it has a valid and properly formatted date and does not include any unnecessary commands.

12. Inspecting an element in the browser will help you determine which ____ to use to identify the element.

1. webElement class
2. browser action
3. Javascript snippet
4. selector

The correct answer is "selector".

13. You are developing your automation maintenance plan. Select two ways that you can mitigate test failures, especially

- 1 random or intermittent failures.
- 2 Delete the production database.
- 3 Isolate and improve flaky tests.
- 4 eliminate integration tests.
- 5 Automatically rerun failing tests to rule out transient errors.

The two ways to mitigate test failures, especially random or intermittent failures, are:

- **Isolate and improve flaky tests**
- **Automatically rerun failing tests to rule out transient errors.**

14. To find the ID, name, or class of an element, you can right-click the element in Chrome and select ____ to open the inspector tool.

- 1 Find
- 2 Inspect
- 3 search
- 4 view

The correct answer is 2 - Inspect.

15. What must you do to interact with a drop-down menu?

- 1. Click the button to open the menu, then send text into a search field to select the option.
- 2. Click the button to open the menu, wait for the option to appear in the list, and then select the option.
- 3. Enter a text value into a field and click the Submit button.
- 4. Find a text field, click in it, send the text value, and then press the Enter key.

The correct answer is 2 - Click the button to open the menu, wait for the option to appear in the list, and then select the option.

16. Which three items are assertion libraries for JavaScript test automation?

- Jasmine
- chai
- Apache Maven
- Logs
- webdriverio
- assent

The correct answer is:

- **Jasmine**
- **Chai**
- **assent**

17. The most reliable way to send text to an input field is to first do what?

- 1 Refresh the page.
- 2 Restart the browser.
- 3 Dismiss an alert.
- 4 Click the field to select it.

The most reliable way to send text to an input field is to first **click the field to select it.**

18. In the absence of a descriptive selector like an ID or name value, a CSS selector can also reliably search by ____ to select a specific element

- 1 text matching
- 2 color
- 3 XPath
- 4 fine weight

Ans: text matching

19. How do you dismiss an alert in Selenium?

1. entianent siers = antvr.pinstienent oy da(vaiers®);
alert. sendkeys (Keys. RETURN);
2. mrpmn driver. findElement (By. class ("alert");
alert.click();
3. mrpmp driver. switchTo() alert;
alert.accept();

The correct code to dismiss an alert in Selenium is option 3:

20. Create a new instance of the ____ class to create an explicit wait in Selenium to wait a specified time before a condition is fulfilled, or throw an exception if the condition is never fulfilled.

1. abartvarinte
2. ate
3. aster

4. EET

The correct class name is "WebDriverWait".

21. When planning what scenarios to automate, which three scores can you add together to get the total automation value of a given scenario?

1 integration score

2 value of scenario

3 cost to automate

4 number of unit tests

5 number of lines per scenario

6 risk

The three scores that can be added together to get the total automation value of a given scenario are:

2 Value of scenario: How valuable is the scenario to the business or end user?

3 Cost to automate: How much effort is required to automate the scenario?

6 Risk: How risky is the scenario in terms of potential defects or business impact if it were to fail?

22. In the original "test pyramid" concept, tests are ordered from bottom to top according to which two factors?

UI

Integration

Unit

1.number of tests, from fewest to greatest

2.level of difficulty, from hardest to easiest

3.execution time, from fastest to slowest

4.level of integration, from most isolated to most integrated

The correct answer is:

- **level of isolation, from most isolated to least isolated (bottom to top)**
- **number of tests, from most to least (bottom to top)**

23. When executing JavaScript, the `executeScript()` method executes a synchronous function, and the `executeAsyncScript()` method executes an asynchronous function, which will not be completed until the provided _____ is invoked.

callback function

24. Which class can be used to automate webdriver actions like drag-and-drop or scrolling to an element?

1. actions
2. By
3. esdrtveriate
4. uesdriver

Ans: actions

25. Which three statements apply to implicit waits in Selenium?

- 1.They allow a custom condition to be supplied and throw an exception only if that condition is not fulfilled before the timeout expires.
- 2.They are controlled by 2 default timeout setting and are not passed a custom timeout period.
- 3.They throw a "no such element" exception upon failure.
- 4.They wait a predetermined length of time for an element to appear.
- 5.They default to a 5-minute timeout interval.

The correct statements that apply to implicit waits in Selenium are:

- **They wait a predetermined length of time for an element to appear.**
- **They are controlled by default timeout settings and are not passed a custom timeout period.**
- **They throw a "no such element" exception upon failure.**

26. Select the two valid test design principles.

1. No Order Dependencies (tests should be able to run in any order and not depend on data from another test)
2. single Responsibility (each test should fulfill only one purpose)
3. Redundant Responsibility (tests should overlap areas of coverage so that no test fulfills only one purpose)

4. Always Repeat Yourself (data should be written in as many different places as possible and never consolidated into variables and configuration files)

5. Principle of Least Privilege (a user should be granted only the privileges necessary to achieve that user's purpose)

The two valid test design principles are:

- **No Order Dependencies (tests should be able to run in any order and not depend on data from another test)**
- **Single Responsibility (each test should fulfill only one purpose)**

27. Which code snippet would you use to find an element by its name?

1. `ariver.findElenent (itn. name ("Firsthianeriela)); |`
2. `ariver. FindElementsy (name (rirstthiane ela"); |`
3. `ariver. FindElenment (sy. nane("Firstismeriela"));`
4. `ariver. FindElement (sy. 1a("FirstiianeFiela));`

The correct code snippet to find an element by its name is:

`ariver.findElement(By.name("Firsthianeriela"));`

28. Which two interactive web elements can be set or unset merely by clicking them?

1. radio buttons
2. textinput fields
3. file upload fields
4. page objects
5. check boxes
6. explicit waits

Answer:

- **radio buttons**
- **check boxes**

29. _____ is a tool for testing web applications through the UL. It allows automation developers to automate actions in all major browsers. fill in the blank

Selenium is a tool for testing web applications through the UL. It allows automation developers to automate actions in all major browsers.

30. _____ tests occupy the bottom level of the test pyramid, with runtimes on the order of milliseconds, and are the most numerous type of automated tests. fill in the blank

Unit tests occupy the bottom level of the test pyramid, with runtimes on the order of milliseconds, and are the most numerous type of automated tests.

31. What is the easiest way to interact with a file uploader?

1. Write a custom JavaScript snippet to upload the file from a network storage server.
2. Click into the file name field and input the file name.
3. Download the file from a remote server and use drag-and-drop to automate the upload.
4. Drag and drop the file from the host operating system by automating mouse cursor actions with relative screen dimensions in pixels.

Option 2 is the correct answer. Clicking into the file name field and inputting the file name is the easiest way to interact with a file uploader.

32. How can a CSS selector statement more accurately refer to an element?

1. by selecting child elements of the target element
2. by selecting all siblings of the target element
3. by incorporating XPath directly into the CSS statement
4. by combining multiple attributes of the target element

Ans: 4. by combining multiple attributes of the target element

33. The Selenium Project is _____ software project supporting development of the Selenium browser automation tool.

1. proprietary
2. subscription
3. closed-source
4. open-source

The Selenium Project is **an open-source** software project supporting development of the Selenium browser automation tool.

34. You want to click a button that appears within a frame, but you cannot interact with it. Which command sequence will allow you to click the button?

1. driver. setContext. frane("myFrane");
2. ariver.suitenTo(). frame("nyFrame");
3. driver. switchTo() .uindou(1);
4. driver. switchTo("myFrane")

The correct command sequence to switch to the frame and click the button would be:

driver.switchTo().frame("myFrame");

35. Which tool can web UI automation developers use to automate Selenium actions across multiple servers or containers?

1. Selenium IDE
2. GitHub
3. selenium Grid
4. selenium Hub

The correct answer is option 3: Selenium Grid.

36. Select the online service where you can host your project code in repositories for collaboration, integration, and tracking changes over time

1. selenium Grid
2. GitHub
3. ait
4. WordPress

The correct answer is 2. GitHub.

37. You can clean up a test by using repeatable ____ to consolidate sets of reusable instructions.

1. methods
2. callbacks
3. ReSTAPIs
4. forms

Ans: methods

38. ____ Objects are a design pattern to organize reusable test code into pages or areas of functionality within the site or application. fill in the blank

Page Objects are a design pattern to organize reusable test code into pages or areas of functionality within the site or application.

39. You are trying to interact with an element that is not registering keyboard or mouse input because the element is scrolled out of view. What should you do to interact with the element?

1. Decrease the browser's screen size.
2. Refresh the page.
3. Select the element by hovering over it with a new Actions object.
4. scroll the element into view with a new Actions object.

You should **scroll the element into view with a new Actions object to interact with it.**

40. Which code snippet would you use to send the string "text to send" to a text input field

1. `entianert semrtets = antver.pinseienent oy fa(Craner))s`
`'textField.sendKeys(Keys.RETURN);`
2. `entianert semtrters = antver.pinseienent oy fa(Craner))s`
`'textField.click();`
`'textField.sendKeys("text to send");`
3. `entianent semrters = antver.pinseienent oy fa(Craner))s`
`'textField.click();`

4. entianens semrtets = artver.pinseient oy fa(Craner))s

'textField.setTextValueTo("text to send");

The correct option is:

entianert semtrters = antver.pinseient oy fa(Craner))s

'textField.click();

'textField.sendKeys("text to send");