# Java + Selenium Interview Questions

## Basic Java + Selenium Questions

1. 1. What is Selenium? What are its components?
2. 2. What is the difference between Selenium WebDriver and Selenium RC?
3. 3. What is the role of the WebDriver interface?
4. 4. How do you launch a browser in Selenium?
5. 5. How do you locate web elements using Selenium?
6. 6. What are the different types of locators in Selenium?
7. 7. What is the difference between `findElement()` and `findElements()`?
8. 8. How do you handle dropdowns in Selenium?
9. 9. How do you handle alerts and pop-ups?
10. 10. How do you handle multiple browser windows or tabs in Selenium?

## Intermediate Java + Selenium Questions

1. 1. What is the difference between `driver.close()` and `driver.quit()`?
2. 2. How do you implement waits in Selenium? - Explicit wait vs. Implicit wait
3. 3. What are StaleElementReferenceException and NoSuchElementException?
4. 4. How do you handle dynamic web elements in Selenium?
5. 5. What is Page Object Model (POM)? Why is it used?
6. 6. Explain the concept of a Singleton Driver in Selenium.
7. 7. How can you take screenshots in Selenium?
8. 8. What is TestNG and how is it used with Selenium?
9. 9. How do you do data-driven testing in Selenium?
10. 10. What are the advantages of using Maven/Gradle in Selenium projects?

## Advanced Questions

1. 1. How do you manage synchronization issues in Selenium?
2. 2. How do you handle file uploads/downloads using Selenium?
3. 3. Explain Selenium Grid. How do you use it for parallel execution?
4. 4. Have you worked with cloud-based Selenium platforms (e.g., BrowserStack, Sauce Labs)?
5. 5. How do you integrate Selenium with CI/CD tools like Jenkins?
6. 6. How do you validate broken links on a webpage using Selenium?
7. 7. How do you perform database validation in your Selenium tests?
8. 8. Explain FluentWait with an example.
9. 9. How do you manage browser logs and console errors with Selenium?
10. 10. How do you design a robust test automation framework using Java + Selenium?