

QA INTERVIEW QUESTION & ANSWER GUIDE (3+ YEARS)

Below is a compiled set of questions and brief answers covering Selenium, Java, TestNG, Appium, WebDriverIO, API Testing, Postman, Newman, QA Theory, and Scenario-based questions.

NOTE: This PDF includes a summarized form of answers due to length limits. If you want a full, detailed explanation for each question, I can generate a second extended PDF.

1. What is Selenium WebDriver?

A: A tool to automate web applications by interacting directly with browsers using browser drivers.

2. Difference between findElement and findElements?

A: findElement returns a single WebElement or throws exception; findElements returns a list (empty list if not found).

3. What is implicit wait?

A: Global wait that retries finding an element for a set time before failing.

4. What is explicit wait?

A: A conditional wait applied to specific elements.

5. driver.close vs driver.quit?

A: close closes one tab; quit shuts down the browser entirely.

6. What is POM?

A: Page Object Model is a design pattern that separates page elements and actions into separate classes.

7. How to handle frames?

A: Use driver.switchTo().frame()

8. What causes StaleElementReferenceException?

A: DOM changed, element recreated, or page refreshed.

9. What is JavaScriptExecutor?

A: Executes JavaScript directly in the browser.

10. How to handle dropdown?

A: Using Select class in Selenium.

JAVA QUESTIONS

11. What is polymorphism?

A: Method overloading and overriding allowing different implementations.

12. Interface vs abstract class?

A: Interface has abstract methods; abstract class can have both concrete and abstract methods.

13. ArrayList vs LinkedList?

A: ArrayList is faster for access; LinkedList is faster for insert/delete.

14. HashMap internal working?

A: Uses hashing, buckets, and linked lists/red-black trees.

15. Exception vs Error?

A: Exception is recoverable; Error is not.

TESTNG QUESTIONS

16. What is @BeforeMethod?

A: Runs before every @Test.

17. What is DataProvider?

A: Supplies multiple sets of test data.

18. What is priority in TestNG?

A: Controls execution order of tests.

19. How to skip a test?

A: Use enabled = false.

20. What are TestNG listeners?

A: Interfaces to track test execution events.

APPIUM QUESTIONS

21. What is Appium?

A: Automation tool for mobile native, hybrid, and web apps.

22. How does Appium work?

A: Client-server architecture using JSON Wire Protocol / W3C WebDriver Protocol.

23. What is DesiredCapabilities?

A: Key-value pairs passed to configure session.

24. How to switch context?

A: driver.context("WEBVIEW") or driver.context("NATIVE_APP")

25. What is accessibilityId?

A: Stable locator based on accessibility labels.

WEB DRIVER IO / JS

26. What is wdio.conf.js?

A: Main WebdriverIO configuration file.

27. What are hooks?

A: Functions executed before/after tests.

28. async/await usage?

A: To handle promises cleanly in automation.

29. How to take screenshot?

A: browser.saveScreenshot()

30. What is a service in WDIO?

A: Plugins like Appium, DevTools, etc.

API + POSTMAN + NEWMAN

31. What is PUT vs PATCH?

A: PUT replaces entire resource; PATCH updates partial data.

32. Status 401 vs 403?

A: 401 = authentication required; 403 = forbidden even if authenticated.

33. Pre-request script?

A: Script executed before API call.

34. Postman variables?

A: Global, environment, and collection variables.

35. How to run Newman?

A: newman run collection.json -e env.json

QA THEORY

36. What is smoke testing?

A: Basic checks to ensure major functionality works.

37. What is regression testing?

A: Ensuring existing features still work after changes.

38. What is severity vs priority?

A: Severity = impact; Priority = order of fixing.

39. What is agile?

A: Iterative development methodology.

40. What is boundary value analysis?

A: Testing edges of input ranges.

LOGICAL & SCENARIO QUESTIONS

41. How do you test a login page?

A: Valid login, invalid login, blank fields, SQL Injection, rate limits, etc.

42. Automation works locally but not on CI — why?

A: Environment differences, waits, missing drivers, network issues.

43. API returns slow response — debugging?

A: Check server logs, payload size, DB queries, rate limits.

44. How to test a calculator without using numbers?

A: Using expressions, edge cases, UI operations, overflow.

45. Button not clickable — causes?

A: Overlapping element, disabled state, wrong locator, JavaScript error.

For a full version with detailed explanations and code snippets, request the Extended PDF.