

# Software Automation Testing:

**1. Which of the following best describes a software automation testing framework?**

- a. A set of guidelines and best practices for manual testing
- b. A structured approach for automating testing processes
- c. A tool for recording and playing back test scripts
- d. A framework for performance testing

Answer: b. A structured approach for automating testing processes.

**2. What is the purpose of selecting tools and technologies in a software automation testing framework?**

- a. To define test objectives
- b. To handle test data management
- c. To implement test environment configuration
- d. To support automation and execution of test scripts

Answer: d. To support automation and execution of test scripts.

**3. Which component of a software automation testing framework is responsible for interacting with the application's user interface or API?**

- a. Test Scripts
- b. Test Data
- c. Test Environment Setup
- d. Test Execution

Answer: a. Test Scripts.

**4. What does the Test Data component of a software automation testing framework involve?**

- a. Configuring the test environment
- b. Executing the test scripts
- c. Managing the data used for test cases
- d. Generating comprehensive test reports

Answer: c. Managing the data used for test cases.

**5. Which component of a software automation testing framework is responsible for configuring the test environment?**

- a. Test Scripts
- b. Test Data
- c. Test Environment Setup
- d. Test Execution

Answer: c. Test Environment Setup.

**6. What is the purpose of the Test Execution component in a software automation testing framework?**

- a. Capturing test results
- b. Generating test reports
- c. Interacting with the application under test
- d. Managing test data

Answer: c. Interacting with the application under test.

**7. Which component of a software automation testing framework is responsible for collecting and capturing test results?**

- a. Test Scripts
- b. Test Data
- c. Test Result Collection
- d. Test Reporting

Answer: c. Test Result Collection.

**8. What is the purpose of Test Reporting in a software automation testing framework?**

- a. Interacting with the application under test
- b. Configuring the test environment
- c. Generating comprehensive test reports
- d. Managing the data used for test cases

Answer: c. Generating comprehensive test reports.

# Software Automation Testing Framework

## 1. What is software automation testing?

- a. Testing performed by software developers
- b. Testing performed manually without any tools
- c. Testing performed using automated tools and scripts
- d. Testing performed by end-users

Answer: c. Testing performed using automated tools and scripts.

## 2. Which of the following is a benefit of software automation testing?

- a. Reduced test coverage
- b. Increased test execution time
- c. Improved test efficiency and accuracy
- d. Limited test case reusability

Answer: c. Improved test efficiency and accuracy.

## 3. Which phase of the software development lifecycle is automation testing typically performed in?

- a. Requirements gathering
- b. Design and architecture
- c. Testing and quality assurance
- d. Deployment and maintenance

Answer: c. Testing and quality assurance.

## 4. Which type of testing is most suitable for automation testing?

- a. Exploratory testing
- b. Usability testing
- c. Regression testing
- d. Performance testing

Answer: c. Regression testing.

## 5. What is the main objective of regression testing in automation?

- a. To identify defects in new functionality
- b. To ensure the application meets performance requirements
- c. To verify the system behavior after changes
- d. To validate the user interface design

Answer: c. To verify the system behavior after changes.

## 6. Which tool is commonly used for automating web application testing?

- a. Selenium
- b. JUnit
- c. Appium
- d. TestNG

Answer: a. Selenium.

## 7. Which type of testing focuses on the performance and scalability of the system under load?

- a. Functional testing
- b. Regression testing
- c. Performance testing
- d. User acceptance testing

Answer: c. Performance testing.

## 8. Which technique allows the execution of test cases with multiple sets of test data?

- a. Boundary value analysis
- b. Equivalence partitioning
- c. Data-driven testing
- d. Error guessing

Answer: c. Data-driven testing.

## 9. Which of the following is a characteristic of a good automation test script?

a. Lengthy and complex code b. Dependent on manual intervention c. Reusability and maintainability d. No need for documentation

Answer: c. Reusability and maintainability.

**10. What is the purpose of test automation frameworks?**

a. To reduce the need for manual testing b. To simplify the development of test scripts c. To provide a structured approach to automation testing d. To eliminate the need for functional testing

Answer: c. To provide a structured approach to automation testing.

