

Comprehension Check

In this section, you will be applying what you learned. Choose the best answer.

Atomic tests are focused on testing one specific part of the software

- ☒ True
- ☐ False

Atomic tests are quick and focused

- ☒ True
- ☐ False

Atomic tests ensure that each component works right before putting them all together

- ☐ True
- ☒ False

Atomic tests are complex to set up and maintain

- ☐ True
- ☒ False

Atomic tests promote modular design and ensure components work independently

- ☐ True
- ☒ False

Which of the following is a benefit of independent tests?

- ☐ They increase the complexity of the testing process.
- ☒ They make debugging and troubleshooting easier.
- ☐ They rely on other tests and external dependencies.
- ☐ They reduce test coverage.

7. Which of the following statements is true about autonomous tests?

- ☐ Autonomous tests require external dependencies to function properly.
- ☐ Autonomous tests are only used for unit testing.
- ☐ Autonomous tests make debugging and troubleshooting more challenging.
- ☒ Autonomous tests can be run simultaneously without conflicts.

8. Why is it important to separate setup and teardown steps from the test itself?

- ☒ It reduces the execution time of the test.
- ☐ It ensures that teardown will be executed regardless of test results
- ☐ It ensures that the test passes without any issues.
- ☐ It eliminates the need for setup and teardown in testing.

9. What is the purpose of the teardown step in testing?

- ☐ To initialize objects and test data before the test.
- ☒ To clean up resources and restore the environment after the test.
- ☐ To execute assertions and verify the expected outcomes.
- ☐ To define the specific behavior or functionality being tested.