



# ISTQB-TAE<sup>Q&As</sup>

ISTQB Certified Tester Advanced Level-Test Automation Engineering

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### QUESTION 1

Which of the following is NOT an advantage of test automation?

- A. The ability to perform tests which would be difficult or impossible to execute manually
- B. The ability to run more tests in less time and therefore to make it possible to run them more often
- C. The ability to find more defects with the same tests, compared to executing the same test manually
- D. The ability to enable a better use of skilled testers by freeing them from repetitive and boring tasks

Correct Answer: C

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### QUESTION 2

When the SUT provides insight into the behaviour of the system, providing the users the with the status of the various actions performed so that they can check that expected behaviour equals actual behaviour, what is this called?

- A. Portability.
- B. Maintainability.
- C. Observability.
- D. Controllability.

Correct Answer: C

Reference: <https://www.toptal.com/designers/ux-consultants/how-to-conduct-usability-testing-in-6-steps>

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### QUESTION 3

Which of the following is considered a disadvantage of test automation?

- A. Automated exploratory testing is difficult to implement
- B. Test automation can be a distraction from the objective of finding bugs
- C. Tests are more likely to have operator errors.
- D. Slower feedback on the quality of the system.

Correct Answer: D

Reference: <https://blog.qasource.com/resources/are-there-any-disadvantages-of-automation-testing-in-quality-assurance>

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### QUESTION 4



Which of the following statements does NOT describe good practice for maintaining the TAS?

- A. The TAS must run in the development environment because development and programming knowledge are required for its maintainability
- B. The TAS must be under configuration management, along with the test suite, the testware artefacts and the test environment in which it runs
- C. The TAS must separate the test scripts from the environment in which it runs and from the associated harnesses and artefacts
- D. The TAS must consist of components that can be easily replaced without affecting the overall behavior of the TAS itself

Correct Answer: A

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### QUESTION 5

You are testing a major enhancement to an air traffic control user interface. You have use of a sophisticated pre-production test environment, created specifically for large scale automated regression, performance and security testing. The window for regression testing is limited and must successfully conclude, with no major regressions remaining, before the non-functional testing starts.

You have been using the same version of the TAS for the last few releases, each time completing the automated regression test suite in a single overnight run. However, due to the latest enhancements for the SUT, you believe there is a risk that the test suite may no longer complete overnight and therefore delay performance and security testing.

Which option would be the BEST and MOST cost-efficient approach to mitigate this risk?

- A. Create a mirror of the pre-production test environment and split the regression test suite to run in parallel across the environments.
- B. Split the regression test suite into multiple parts, running in the environment across consecutive nights.
- C. Analyse the regression test suite and remove test coverage duplication and redundancy.
- D. Introduce better coding practices for the automation scripts, including coding guidelines, reviews and improved static analysis.

Correct Answer: A

Reference: <https://www.guru99.com/regression-testing.html>

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### QUESTION 6

You are executing the first test run of a test automation suite of 200 tests. All the relevant information related to the state of the SUT and to the automated test execution is stored in a small database. During the Automated test run you observe that the first 10 test pass, while an abnormal termination occurs when executing the 11th test. This test does not complete its execution and the overall execution of the suite is aborted. An immediate analysis of the abnormal termination is expected to be time consuming and you have been asked to produce a detailed report of the execution results for the first test run, as soon as possible.

What is the MOST important FIRST step to be taken immediately after the abnormal occurred when executing the



11thtest?

- A. Re-run the test automation suite starting from the 12thtest
- B. Return the database to a consistent state that allows subsequent test to run
- C. Take a backup of the database in its current state. So It can be analyzed later
- D. Re-run the test automation suite starting from the 1sttest.

Correct Answer: C

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### QUESTION 7

The Test Automation Manager has asked you to provide a solution for collecting metrics from the TAS that measures code coverage every time the automated regression test pack is run. The metrics must be trend based to ensure that the scope of the regression test pack continues to reflect enhancements made to the SUT - coverage must not drop and should ideally increase. The solution must be as automated as possible to avoid unnecessary manual overheads and errors.

Which of the following approaches would BEST meet these requirements?

- A. Test automation cannot measure code coverage for the SUT, only the code for the automation tools and scripts. The automated test cases would need to be run manually with a code coverage and reporting tool running in the background.
- B. The automated testware would record overall code coverage for each run and add the figure to a new row in a pre-formatted Excel spreadsheet. You would then present the spreadsheet to stakeholders so they could look for changes in coverage.
- C. The automated testware would record overall code coverage for each run, export the data to a pre-formatted Excel spreadsheet that automatically updates a trend analysis bar chart for you to distribute to stakeholders.
- D. The automated testware would record the pass/fail rate of each regression test case, export the data to a pre-formatted Excel spreadsheet that automatically updates a trend analysis success rate bar chart and emails it to stakeholders.

Correct Answer: C

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### QUESTION 8

What is NOT a factor in considering when you are asked to ensure an effective transition from manual to automated tests?

- A. Complexity to automate the manual test cases
- B. Correctness of test data and test cases
- C. The look and feel of the SUT
- D. The controllability of the SUT

Correct Answer: C

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### QUESTION 9

If you are tracking the frequency that a test automation code reports a defect that is not really a defect, what metric are you gathering?

- A. Tool scripting metrics
- B. Automation code defect density
- C. Trend metrics
- D. The number of false-fail results

Correct Answer: D

Reference: <https://www.sealights.io/regression-testing/11-test-automation-metrics-and-their-pros-cons/>

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### QUESTION 10

You are planning the pilot for an in-house developed Test Automation solution (TAS).

Which two of the following would be important steps to take as part of the planning process?

- a) Review your organisation's current projects and identify which one would be most suitable to pilot the TAS.
- b) Ensure that the developers will provide the necessary commitment for the TAS deployment activities.
- c) Run a series of training workshops for new users of the TAS before they are asked to use it.
- d) Develop a project plan for the pilot and reserve the necessary budget and resources for its implementation.
- e) Ask the developers to provide any missing functionality during the deployment activities.

- A. a and b
- B. b and d
- C. c and d
- D. c and e

Correct Answer: B

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### QUESTION 11

In order to achieve re-use of a TAS, where SHOULD the design for reuse occur?

- A. At the code level



B. At the framework level.

C. At the TAS level

D. At the TAA level

Correct Answer: C

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#### QUESTION 12

Which of the following is NOT a technical design consideration for a TAA?

A. The number of users for the SUT

B. Availability of interfaces for the SUT to be testable

C. Standards and Legal requirements, e.g data privacy

D. Data used by the SUT, e.g configuration, users

Correct Answer: A

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#### QUESTION 13

You are currently designing the TAA of a TAS. You have been asked to adopt an approach for automatically generating and executing test cases from a model that defines the SUT. The SUT is a state-based and event-driven that is described by a finite-state machine and exposes its functionality via an API. The behavior of the SUT depends on hardware and communication links that can be unreliable.

Which of the following aspects is MOST important when designing the TAA in this scenario?

A. Looking for tools that allows direct denoting of exceptions and actions depending on the SUT events.

B. Adopting a test definition strategy based on classification tree coverage for the test definition layer.

C. Looking for tools that allow performing setup and teardown of the test suites and the SUT.

D. Adopting a test definition strategy based on use case/exception case coverage for the definition layer.

Correct Answer: C

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#### QUESTION 14

Consider the following layers of the gTAA structure:

a.

Test generation layer

b.



Test definition layer

c.

Test execution layer

d.

Test execution layer

Consider the following capabilities associated with these layers.

Acquire all the necessary resources before each test and release all after run, in order to avoid interdependences between test

Allow the automated test scripts on an abstract level to interact with components, configurations and interfaces of the SUT.

Design test directives that allow configuring the algorithms used to automatically produce the test cases a given model of the SUT.

Allow the definition and implementation of test cases and data by means of templates and/or guidelines.

Which of the following BEST matches each layer with the appropriate capability?

A. a-3, b-4, c-1, d-2

B. a-4, b-3, c-1, d-2

C. a-4, b-3, c-2, d-1

D. a-3, b-4, c-2, d-1

Correct Answer: C

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## QUESTION 15

Which of the following describes how a test execution report is likely to be used?

A. To understand which test step caused the failure in a test case

B. To identify problematic areas of the SUT by keeping a history showing which test cases fail the most

C. To measure coverage of the test basis by a test suite

D. To record how a test case failure has been fixed

Correct Answer: B

Reference: <https://www.guru99.com/how-test-reports-predict-the-success-of-your-testing-project.html>



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