



# ISTQB

## Exam Questions CT-TAE

Certified Tester Test Automation Engineer

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#### NEW QUESTION 1

Your goal is to verify completeness, consistency and correct behavior of an automated test suite. The TAS has been proven to successfully install in the SUT environment. All the preliminary checks to verify the correct functioning of the automated test environment and test tool configuration, installation and setup have successfully completed.

Which of the following is NOT a relevant check for achieving your goal in this scenario?

- A. Checking whether all the test cases contain the expected results
- B. Checking whether the post condition have been fulfilled for all the test cases
- C. Checking whether the loading of the TAS is repeatable in the SUT environment
- D. Checking whether all the test cases produce repeatable outcomes

**Answer: D**

#### NEW QUESTION 2

You are using a gTAA to create a TAS for a project. The TAS is aimed specifically at automating a suit of existing manual test cases for standalone desktop applications. All the interfaces between the TAS and SUT will be from the CUI of the application.

Which of the following layers of the gTAA should you focus on for the TAS?

- A. The test Generation layer
- B. The Test Definition layer
- C. The Test Adaption layer
- D. The Test Execution layer

**Answer: C**

#### NEW QUESTION 3

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

**Answer: C**

#### NEW QUESTION 4

You are reviewing the testability of your SUT.

Which of the following BEST refers to the characteristic of OBSERVABILITY?

- A. The ability of the SUT to perform its intended function for a specified period of time
- B. The ability to exercise the SUT by entering inputs, triggering events and invoking methods
- C. The ability of the SUT to prevent unauthorized access to its components or data.
- D. The ability to identify states, outputs, intermediate result and error messages in the SUT

**Answer: D**

#### NEW QUESTION 5

Which of the following attributes should NOT be included in a test execution report associated with a suite of automated tests?

- A. Summary of the test execution results
- B. System/Application under test and its version
- C. Defect clusters identified during test execution
- D. Environment in which the tests have been executed

**Answer: C**

#### NEW QUESTION 6

A defect in a SUT has been resolved and validated by an automated defect re-test in the current release of the software. This retest has now been added to the automated regression test suite.

Which statement BEST describes a reason why this defect could re-occur in future releases?

- A. Automated defect confirmation testing is not effective at confirming that the resolved defect will continue to work in future releases
- B. The configuration management process does not properly control the synchronization between software archives
- C. The automated regression test suite is not run consistently for future releases.
- D. The automated regression test suite has a narrower scope of functionality

**Answer: B**

#### NEW QUESTION 7

Which of the following statement about the implementation of automated regression testing is FALSE?

- A. When automating regression tests, the structure of automated tests must always be the same as the corresponding manual tests
- B. When automating regression tests, the corresponding manual tests should have already been executed to verify they operate correctly
- C. When automating regression tests, the initialization steps set the test preconditions should be automated wherever possible
- D. When automating regression tests, consideration should be given to how much time would be saved by automation

Answer: D

#### NEW QUESTION 8

You are working as a TAE for a company who are re-designing their website. The new website provides information for customers and there are two minor features being developed:

- 1) Request a newsletter
- 2) Ability to contact the organisation with a question or comment

The website must be "mobile friendly" and available on all major web browsers.

You have been tasked to provide an automated solution for web browsers only and to concentrate on the two minor features.

What would be a KEY challenge with automation in this context?

- A. A low level of intrusion is likely from use of existing UI elements, but depending on the solution this might be more complex than a higher level of intrusion.
- B. Because there is a high level of intrusion there may be many false alarms.
- C. Automation might not be possible on the mobile devices.
- D. The benefits of automation might not be achieved for many years due to the complexities of the SUT and automation solution.

Answer: D

#### Explanation:

Reference: <https://www.britannica.com/technology/automation/Advantages-and-disadvantages-of-automation>

#### NEW QUESTION 9

Your functional regression test automation suite ran successfully for the first two sprints and no failures were encountered during the runs. The automation suite records the status of each test case as either 'pass' or 'fail' and has excellent recovery capability built in.

For the third sprint, the TAS log reported several test cases with a status of 'fail'. You investigated each test case and found that most failures were due to a defect in one of the keyword scripts, rather than in the SUT. For those where the failure was in the SUT, defect reports were raised but several were returned by the developers asking for more information to enable them to reproduce the problem.

Which additional log items SHOULD you add to the TAS that would BEST improve failure analysis and defect reporting for future sprints?

- a) Dynamic measurement information about the SUT.
- b) A status of TAS error, in addition to 'pass' and 'fail', for each test case.
- c) Use of a colour coding scheme so that 'pass' is in red and 'fail' is in green.
- d) A counter to determine how many times each test case has been executed.
- e) System configuration information including software/firmware and operating system versions.
- f) A copy of the source code for all Keyword scripts executed.

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

Answer: B

#### NEW QUESTION 10

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 11th test?

- A. Re-run the test automation suite starting from the 12th test
- 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
- D. So It can be analyzed later
- E. Re-run the test automation suite starting from the 1st test.

Answer: C

#### NEW QUESTION 10

You have inherited a TAS that is working well it uses keyword-driven scripting and was well architected. The automation architect who built the system has now moved on to another company. The TAS is working across several projects and has a multiple library of keywords, categorised by project. The individual project teams maintain these keyword scripts.

Based only on the given information, what is the MOST significant risk for the TAS?

- A. The keyword driven scripts may become out of date if not maintained
- B. The level of abstraction, coupled with the departure of the architect may make the system hard to maintain
- C. New projects may not work as well with the TAS as the current projects
- D. Because the keyword scripts are maintained by different teams, there is a likelihood that good coding standards are not followed

Answer: B

#### NEW QUESTION 14

Consider a TAS associated to dynamically changing software frequent releases. Your goal is to determine the amount of effort required to maintain the automated tests of the regression test suite for each new release of the SUT.

What is the MOST important metric to collect to achieve your goal?

- A. The code coverage achieved with the automated tests, for each new release of the SUT
- B. The number of automated tests which fail because of a single software defect, for each new release of the SUT

- C. The time it takes to execute all the automated tests, for each new release of the SUT.
- D. The number of automated tests requiring maintenance, for each new release of the SUT.

**Answer:** B

#### NEW QUESTION 18

Which of the following metrics could suggest, under certain condition that an automated regression test suite has NOT been updated for new functionalities added to the SUT?

- A. The ratio of comments to executable statements in the SUT code.
- B. The SUT code coverage provided by the execution of the regression test suite.
- C. The defect density in the automation code of the regression test suite.
- D. The ratio of commands to executable statements in the automation code of the regression test suite

**Answer:** B

#### NEW QUESTION 22

Your project is transitioning from manual to automated testing. You have decided to implement a pilot project so that lessons learned can inform future time estimates and schedules.

Which two of the following represent the types of test cases that are MOST suited to a test automation pilot project?

- a) High added value test cases that require little effort to automate.
- b) Test that are run infrequently as these will be simpler to automate
- c) Reliability test cases that can show added value soon
- d) Technically challenging test cases to provide the best validation of manual test conversion
- e) Tests that are least Important to the business as these are safer to trial

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

**Answer:** B

#### Explanation:

Reference: <https://www.perfecto.io/blog/types-of-test-cases-to-automate>

#### NEW QUESTION 24

A regression test suite consist of 500 test cases which are all executed manually. The business case for a pilot project is based on the adoption of test automation using acommercial tool that will reduce the execution time by a factor of 90% for 100% of the tests in the regression test suite. The pilot project lasted one month ( as planned) and you are currently its results. At the end of the pilot project, 40% of the regression tests have been automated and their execution time has been reduce by 60%.

Which of the following statements is TRUE in this scenario?

- A. The duration of the pilot project was too short –it should last unit the success factors are achieved
- B. The target defined for the business case is too accurate –it should not be measureable
- C. The project selected for the pilot is too critical –if should not be too critical or too trivial
- D. The target defined for the business case seems difficult to hit – it should be realistic

**Answer:** D

#### NEW QUESTION 27

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

**Answer:** D

#### Explanation:

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

#### NEW QUESTION 30

What represents good practice when automating a manual regression test suite?

- A. Test data shared between tests should, where feasible, be stored and accessed from a single source to avoid duplication or introduction of error.
- B. All existing manual tests should be decomposed into several smaller automated tests to reduce functional overlap.
- C. Remove inter-dependencies between tests to reduce automation failures and costly error analysis.
- D. Once a manual test has been automated, execute it immediately to Identify whether it operates correctly.

**Answer:** D

#### Explanation:

Reference: <https://www.softwaretestinghelp.com/manual-to-automation-testing-process- challenges/>

#### NEW QUESTION 34

Consider a TAS that uses a keyword-driven framework. The SUT is a web application and there is a large set of keywords available for writing the automated tests that relate to highly specific user actions linked directly to the GUI of the SUT. The automated test written with the keywords are statically analyzed by a custom tool which highlights repeated instances of identical sequence of keywords. The waiting mechanism implemented by the TAS for a webpage load is based on a synchronous sampling within a given timeout. The TAS allows checking a webpage load every second until a timeout value

- A. Changing the scripting approach to data-driven scripting
- B. Implementing keywords with a higher level of granularity
- C. Changing the wait mechanism to explicit hard-coded waits
- D. Establishing an error recovery process for TAS and SUT

**Answer:** C

#### NEW QUESTION 35

You are using a gTAA to create a TAS for a project. The TAS is aimed at automatically and executing test cases based on a use-case Modeling approaching that uses UML as a modeling language. All the interaction between TAS and SUT will only be at the API and GUI level. Which of the following components of the gTAA would you EXCLUDE from the TAS?

- A. The test reporting component of the test execution layer.
- B. The Test execution component of the test generation layer
- C. The test execution (test engine) of the test execution layer
- D. The Command Line Interface (CLI) component of the test adaptation layer

**Answer:** D

#### NEW QUESTION 40

A TAS uses a commercial test automation tool and the default logs generated by the inconsistent formats such as different types of messages (pass/fail steps, screenshots, warnings, etc.) To solve this issue some custom logging functions have been created from the test scripts, making it possible to log the different types of messages with the same format. However, this may cause a problem due to excessive size of the logs which can make it difficult to find the required information. Assume that all the default logs will be disabled when running the automated tests and that some tests will not generate excessively sized logs. Which of the following represents the BEST suggestion for implementing the custom logging functions?

- A. Implement the custom logging functions without saving timestamps
- B. Implement the custom logging functions to support different levels of tracing
- C. Implement the custom logging functions without saving stack traces
- D. Implement the custom logging functions to redirect the logs to multiple files

**Answer:** B

#### NEW QUESTION 43

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

**Answer:** C

#### NEW QUESTION 45

If model-based testing has been selected for the overall test automation approach for a project, how does that influence the layers of the TAA?

- A. All layers are used, but the test generation layer will be automated based on the defined model
- B. There will be no need for the execution layer
- C. No adaptation will be needed because the interfaces will be defined by the model
- D. There will be no need to design the tests for the API because those will be covered by the model

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 50

Which of the following BEST describes why it is important to separate test definition from test execution in a TAA?

- A. It allows developing steps of the test process without being closely tied to the SUT interface.
- B. It allows choosing different paradigms (e.g. event-driven) for the interaction TAS and SUT
- C. It allows specifying test cases without being closely tied to the tool to run them against the SUT
- D. It allows testers to find more defects on the SUT

**Answer:** C

#### NEW QUESTION 55

Consider a TAS for testing a desktop application via its GUI. All the test cases of the automated test suite contain the same identical sequences of steps at the



beginning (to create the necessary objects when doing a preliminary configuration of the test environment and at the end (to remove everything created –specifically for the test itself during the preliminary configuration of the test environment). All automated test cases use the same set of assertion functions from a shared library, for verifying the values in the GUI fields ( e.g text boxes).

What is the BEST recommendation for improving the TAS?

- A. Implementing keywords with higher level of granularity
- B. Improving the architecture of the application in order to improve its testability
- C. Adopting a set of standard verification methods for use by all automated tests
- D. Implementing standard setup and teardown functions at test case level

**Answer:** A

#### NEW QUESTION 58

When if the BEST time for automation to consider legal and/or standard requirements for a SUT?

- A. When implementing the SUT
- B. When designing a TAF
- C. When designing a TAA
- D. When developing a TAS

**Answer:** A

#### Explanation:

Reference: <https://www.globalapptesting.com/blog/when-should-you-automate-your- software-testing>

#### NEW QUESTION 61

Consider the following example of TAS metrics. Time to execute automated tests  
Speed and efficiency of TAS components Which of the following statements is TRUE?

- A. A and B are both internal TAS metrics
- B. A is an internal TAS metric and B is an external TAS metric
- C. A and b are both external TAS metric
- D. A is and external TAS metric and b is an internal TAS metric

**Answer:** D

#### NEW QUESTION 62

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 script
- B. The automated test cases would need to be run manually with a code coverage and reporting tool running in the background.
- C. The automated testware would record overall code coverage for each run and add the figure to a new row in a pre-formatted Excel spreadshee
- D. You would then present the spreadsheet to stakeholders so they could look for changes in coverage.
- E. 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.
- F. 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.

**Answer:** C

#### NEW QUESTION 65

A web application was released into production one year ago, it has regular release which follow a V-model lifecycle and testing is well-established and fully integration into the development lifecycle. You have been asked to implement a TAS for the regression test suite. The regression tests have been developed via the GUI and are expected to be run at least four times a month, for each planned release, for the whole operation solution life of thesystem (six years). Each screen of the GUI uses several third-party controls which are not compatible with the existing automation solutions. The environment for the automation will be stable, fully controllable and separated from other environments (development, staging, production).

What could be the MOST problematic for this TAS?

- A. Maturity of the test process
- B. Complexity to automate
- C. Frequency of use
- D. Sustainability of the automated environment

**Answer:** D

#### NEW QUESTION 68

You have been asked to develop test automation for a legacy system that is going to go through a series of infrastructure migrations. The scripts will be used to verify basic functionality during these infrastructure changes Your Test Analysts have some programming skills and need a solution that is simple and fast. Maintainability of the scripts is not a consideration because no changes to the software are anticipated. Which of the following is the BEST scripting approach in this situation?

- A. Structured scripting
- B. Capture-replay scripting
- C. Model-Based scripting
- D. Linear scripting

**Answer:** B

**NEW QUESTION 69**

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