

# ISTQB

## Exam Questions CT-TAE

Certified Tester Test Automation Engineer



#### 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 have executed an automated test suite for a product that was released into production. Although all the tests passed, there was a major failure in production in an area that was covered well by your automated tests.

You have run the automated tests again and one of the tests is now failing and this is directly related to the production defect that was raised. You decide to run the automated test suite again on the same version of the SUT and the test now passes.

What SHOULD you do now to verify the validity of the automated tests?

- A. Remove the intermittently failing test from the test suite and investigate the reason why the test sometimes passes and sometimes fails.
- B. Check that the production defect that was reported was an actual defect
- C. Run the automated test suite again and if the test now passes - do nothing
- D. Reference: [https://www.researchgate.net/publication/341396240\\_Intermittently\\_Failing\\_Tests\\_in\\_the\\_Embedded\\_Systems\\_Domain](https://www.researchgate.net/publication/341396240_Intermittently_Failing_Tests_in_the_Embedded_Systems_Domain)

**Answer: A**

#### NEW QUESTION 3

You identified a suitable project to pilot an automation tool and planned and conducted a pilot. The pilot has been successful and tool is being deployed within your organization, with a plan to increase tool use by the one project at a time. During this rollout some test processes will be changed slightly to gain additional benefits from using the tool.

In the pilot project, a small set of manual tests were automated for the first time. You are currently monitoring the test automation efficiency and this reveals that the automation regime for the tests is not yet mature.

Which of the following statements is TRUE?

- A. The approach used for deployed this tool is aligned to the standard success factor for deployment
- B. The pilot project should have been critical so that maximum benefits were delivered
- C. The target defined for the project was inappropriate, because the automation regime for the automated tests at the end of the pilot is not yet mature.
- D. The test process should be radically changed to gain additional benefits from using the tool.

**Answer: A**

#### NEW QUESTION 4

A SUT has an existing automated test suite.

Which of the following statements relating to the introduction of new features in the SUT is TRUE?

- A. Automated tests are not affected by the introduction of a new feature and running them against the new SUT is a waste of effort
- B. The introduction of a new feature could require updates or additions to the testware components
- C. The test automation engineer should work with the business analysts to ensure the new feature is testable
- D. It is generally more difficult to automate test cases for a new feature as the development has not yet started

**Answer: B**

#### NEW QUESTION 5

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 6

You are implementing a TAS for a system that has been live for over three years, using a hybrid waterfall and agile lifecycle. Live updates are made on a monthly basis.

There is no test team, with developers designing and executing unit and integration tests with some degree of automation and business analysts designing and executing manual tests at the system level. No formal test process exists, although the system has proved relatively stable for most of the time.

Unfortunately, the last two monthly releases were problematic with regression defects found in production. Your priority is the automation of functional regression tests at the system level, the budget for this has been approved by project stakeholders.

The Business Analysts have identified which test cases are most suitable for regression. You must use the organisation's long standing commercial automation tool which has passed a proof of concept in the platform for the system in question.

Which of the following suitability criteria needs the MOST attention for the TAS?

- A. Technical planning in support of ROI analysis

- B. Frequency of use.
- C. Compatibility and tool support
- D. Maturity of the test process

**Answer:** C

**Explanation:**

Reference: <https://www.softwaretestinghelp.com/guide-to-functional-testing/>

**NEW QUESTION 7**

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 8**

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 9**

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.

**Answer:** A

**Explanation:**

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

**NEW QUESTION 10**

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

**Answer:** C

**NEW QUESTION 10**

New features have been added for the current release of a SUT.

Which action would NOT be appropriate for the TAE to perform when evaluating the impact on the TAS?

- A. Gather feedback from the Business Analysts to determine if the current TAS will meet the needs of the new features.
- B. Review existing keywords to see if they need to be modified.
- C. Run existing automated tests against the updated SUT to verify and record any changes to their correct operation.
- D. Evaluate compatibility with existing test tools and, where necessary, identify alternative solutions.

**Answer:** A

#### NEW QUESTION 12

Consider a SUT that small run on multiple platform during the execution of automated test runs. In each test run an automated test suite needs to be executed, with the same version of the TAF, against the same version of the SUT of each platform. Each platform shall have its own dedicated test environment. Your goal is to implement a process as automated as possible ( i.e with minimal manual intervention) that allows implementing a consistent setup of the TAS across the multiple test environments.

Which two of the following aspects are MOST relevant for achieving your goal in this scenario?

- A) The configuration of the TAS uses automated installation scripts
- B) The TAF saves the logs needed to debug errors in XML format
- C) Features of the TAF not used by the automated tests have been tested
- D) All the automated test cases contain the expected results
- E) The TAS components are under configuration management

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

**Answer:** A

#### NEW QUESTION 13

You have investigated a new tool which enables the modelling of the SUT and can then generate test cases either manually or automatically. You have convinced your managers that the best way forward is to conduct a pilot project for this tool. You need to select a project to use for the pilot. You have the choice of the following projects:

Project A: A two-year project that is critical to the business and is currently in the requirement phase. This project is for a new e-commerce web site and is mostly being developed ??in-house" although the payment system is being developed and delivered by a 3rd party provider.

Project B: A safety critical application for software to drive and park cars.

Project C: An upgrade to an important HR timesheet tracking application that will be available on a desktop and mobile application. This is a 1-month project developed in- house.

Project D The payment system from project A. Which project would be BEST for the pilot?

- A. Project A because it is a large project and has high visibility and is in the requirement phase.
- B. Project B because it is a safety critical system and has high visibility.
- C. Project C because it is a short, low priority project but is important.
- D. Project D because it is a small part of a larger project and will help show the tool??s capabilities.

**Answer:** D

#### NEW QUESTION 17

You have been asked to automate a set of functional tests at system Test level via the CLI

of the SUT for the first release of a software system. The automated tests will be delivered to the learn in change of maintenance testing, who will use them for part of the regression testing. They have the following requirements.

- \* 1. The automated tests must be as fast and cheap to maintain as possible
- \* 2. The cost of adding new automated tests must be as low as possible
- \* 3. The automated tests must have a high level of independence from the tool itself

Which of the following scripting techniques would be MOST suitable?

- A. Data-driven scripting
- B. Keyword-driven scripting
- C. Linear scripting
- D. Structure scripting

**Answer:** D

#### NEW QUESTION 22

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 11thtest. 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 stat
- D. So It can be analyzed later
- E. Re-run the test automation suite starting from the 1sttest.

**Answer:** C

#### NEW QUESTION 24

You are working on a web-based application called Book Vault that allows people to upload books and order books. This application must be available on all major browsers.

You have been testing the application manually and management have asked you to consider automating some of the tests.

You have investigated a number of commercial and free tools which can automate tests at a web browser level and one tool in particular meets your requirements and you have implemented a trial version.

You have basic programming skills and the main goal is to automate a few functional tests to see if the tool is compatible with the application and can recognise

the objects and controls.

Which scripting technique would be MOST suitable in this scenario in order to meet the objectives?

- A. Structured scripting
- B. Capture-replay scripting
- C. Data-driven scripting
- D. Model-based scripting

**Answer: B**

**Explanation:**

Reference: <https://www.professionalqa.com/capture-tool>

#### NEW QUESTION 27

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 32

You have been asked to determine a TAS for a new release of a SUT, test should be automated wherever. The new release will consist of 5 new interfaces and an amendment to 3 existing interfaces. The new and amended interface will be deliver incrementally in 3 sprints, each lasting 2 weeks.

What would be the BEST Test Automation Solution (TAS) design in this scenario?

- A. Automate tests at both Component and System Leve
- B. Only do this automation once every interface has been fully developed or amended and manual testing has completed successfully.
- C. Automate tests at one level only, System leve
- D. Use only the newly developed interfaces and do not create any customized interfaces/test hooks.
- E. Automate the tests at two levels, Component and System leve
- F. Create customized hooks at Component level for interface not yet developed or amende
- G. Only use the newly developed or amended interfaces to test at System level.
- H. Automate a test at once level, component level, Create customized interface/test hooks for this level where the interface has not yet been developed or amended.

**Answer: A**

#### NEW QUESTION 35

You are working as a TAE for a company who have been using a web test execution tool for a number of years. The tool has been used successfully on ten web applications in the past.

The company are developing a new web application which has a friendly User Interface, but the developers have used an object throughout the application which the tool is unable to recognise. As a result, you have no way of capturing the object or verifying the contents using the automation tool.

What is the first thing you should do about this problem?

- A. See if the application can be run on a desktop and if the object can be recognised on the desktop by the tool.
- B. Investigate whether the object can be recognised by other test execution tools in the market
- C. Ask the developers to remove the object and replace it with some text fields
- D. Ask the developers if they can change the object to something that can be recognised by the tool

**Answer: B**

**Explanation:**

Reference: <https://www.softwaretestinghelp.com/web-application-testing/>

#### NEW QUESTION 38

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 41

You are the TAE for an Agile project which has six sprints for the current release. Sprint five is underway and the automated regression suite is due to start later today.

You have re-examined the results from the automated regression runs for the past four sprints. You notice that two test cases both reported a pass for sprints 1 and 4 but a fail for sprints 2 and 3. The failures have gone undetected and are therefore unexplained. Both test cases are closely coupled with other tests in the



suite.

What course of action SHOULD you take?

- A. Run the regression suite as planned and see If the tests fail again if they do, determine the cause of failure.
- B. Remove the test cases from the regression suite and refer them to the test designer for manual testing for future sprints.
- C. Quarantine the test cases, run the regression suite without them, and perform root cause analysis on the test cases in parallel.
- D. Run the test cases manually no
- E. If they still pass, keep them in the regression suite, if they fail perform root cause analysis.

**Answer: C**

**Explanation:**

Reference: <https://www.softwaretestinghelp.com/regression-testing-tools-and-methods/>

#### NEW QUESTION 44

Consider a TAS deployed into production. The SUT is a web application and the test suite consists of a set of automated regression tests developed via GUI. A keyword-driven framework has been adopted for automating the regression tests. The tests are based on identification at low-levels of the web page components (e.g class indexes, tab sequence indexes and coordinates) in the next planned release the SUT will be subject to significant corrective maintenance (bug-fixes) and evolution (new features) Maintenance costs to update the test scripts should be as low as possible and the scripts must be highly reusable. Which of the following statements is most likely to be TRUE?

- A. The keyword-driven framework is not suitable, it would be better to adopt a structured- scripting approach
- B. False positive errors are likely to occur when running the automated tests on the new releases without modifying the test
- C. The total execution time of the automated regression test suite will decrease for each planned release.
- D. The keyword-driven framework introduces a level abstraction that is too high and makes it difficult what really happens

**Answer: A**

#### NEW QUESTION 49

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 highlight??s 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 seconds 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 50

You have implemented a keyword-driven scripting framework, which uses a test execution tool to run the tests. This has been in use for the past year and all of the teams now use this framework as the standard approach for test execution.

The teams all work on different aspects of the SUT and they have all experienced significant benefits in the use of this scripting framework. However, on closer examination, you have discovered that there are numerous instances where the teams have the same functionality to test but are using different keywords. One of your objectives for improvement is to create consistency among the teams. What is the BEST way to handle this situation?

- A. Move to a model-based approach to scripting where the models include the keywords.
- B. Do nothing, each team are working in isolation and they are all experiencing significant benefits in the way they are currently working.
- C. Provide each team with a set of guidelines and naming conventions for keywords.
- D. Create a central library of keywords and associated definitions for each team to use.

**Answer: D**

**Explanation:**

Reference: <https://www.scriptworks.io/blog/automation-testing-framework/>

#### NEW QUESTION 51

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 52

What is the PRIMARY advantage of using abstraction in the TAA?

- A. It makes it more flexible for future reuse and improvements
- B. It requires a higher skill level to implement
- C. It ensures that any scripting method will be supported
- D. It improves the performance of the TAS

**Answer:** A

**Explanation:**

Reference: <https://www.techtarget.com/whatis/definition/abstraction>

#### NEW QUESTION 56

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 61

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 66

The GUI of a Customer Relationship Management (CRM) application has been delivered through internet Explorer with proprietary Active X and Java controls. This implementation enables rich client capabilities, but specific commercial automation tools are necessary to automate test cases at GUI of functional test cases. This is to demonstrate whether a small set of the commercial are able to properly recognize actions taken by a tester when interacting with GUI of the CRM application.

Which of the following scripting techniques would be MOST suitable in this scenario?

- A. Data-driven scripting
- B. Keyword-driven scripting
- C. Linear scripting
- D. Structure scripting

**Answer:** D

#### NEW QUESTION 67

Which of the following statements BEST describe aspects of the SUT to consider when designing a TAA?

- A. All the interaction between SUT and TAS should be logged with the highest level of detail
- B. All the internal test interfaces of the SUT should be removed prior to the product release
- C. All the interface of the SUT affected by the tests should be controllable by the TAA
- D. All the external test interfaces of the SUT should be removed prior to the product release

**Answer:** A

#### NEW QUESTION 70

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

**Answer:** B

#### NEW QUESTION 71

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 allow choosing different paradigms (e.g event-driven) for the interaction TAS and SUT
- C. It allows specify 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 76

What are the four horizontal layers of the gTAA?

- A. Test adaptation, test execution, test design, test definition
- B. Test generation, test execution, test definition, test APIs
- C. Test generation, test definition, test execution, test adaptation
- D. Test definition, test execution, test reporting, test adaptation

**Answer:** C

#### Explanation:

Reference: <https://www.slideshare.net/jannatindia/chapter-3-the-generic-test-automation-architecture>

#### NEW QUESTION 78

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 spreadsheet
- 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 80

Consider a TAS that is going to be deployed for the first time. The TAS requires share resources and run it its own test environment. The infrastructure for the TAS has been created along with maintenance procedures. It is very unlikely the TAS will be required to work in other target Environments. There is a high-risk that when the TAS is deployed in its own test environment, a number of existing application will no longer work because of conflicts with the existing shared resources. Which of the following activities would you expect to be MOST effective at mitigating the risk associated with the first deployment of the TAS?

- A. Testing the TAS for application compatibility issues in the target environment
- B. Testing the TAS for its ability to be implemented in other target test environments.
- C. Testing the TAS for regressions due to optimization that fix non-functional issues.
- D. Testing the TAS for ITS ability to run a shared test environment

**Answer:** B

#### NEW QUESTION 84

Which of the following CORRECTLY describes how automation SHOULD be applied to confirmation testing?

- A. Confirmation tests are not good candidates for automation as they are not designed to run many times
- B. Confirmation tests should only be automated if they fail to pass on the first attempt
- C. Confirmation tests can be automated and incorporated into an automated regression suite to show whether defects that were previously fixed reoccur
- D. A confirmation test should only be automated after it has been run manually

**Answer:** C

#### NEW QUESTION 86

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