ISTQB-TAE^{Q&As}

ISTQB Certified Tester Advanced Level-Test Automation Engineering

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QUESTION 1

Your organisation has successfully implemented a Test Automaton Solution (TAS) for a new project which has since been delivered into production via a number of sprints. A series of maintenance releases are now planned.

Some improvements were made to the Test Automation Architecture (TAA) as a result of feedback from the early sprints. The TAA improvements affected the TA, and the TAS was changed for the final sprint.

The new version of the TAS was generally well received but some performance and usability issues were encountered with the TAS which have yet to be addressed.

The test automation engineers supporting the maintenance releases must decide whether to use the enhanced TAS or the version that was used successfully for previous sprints.

What is the BEST action to take next?

A. Perform an analysis of risks versus benefits for the enhanced TAS and then decide which version to use.

B. Use the previous version because this was proven to work. It will be too risky to use the new version, with unresolved issues, for a live system.

C. Use the new version because, despite some issues, it works, and the live system should not be tested using a different TAS.

D. Use the new version of the TAS for the first maintenance release on a trial basis. If issues are encountered, switch to the previous version for later releases until the issues are resolved.

Correct Answer: D

QUESTION 2

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 ?t should last unit the success factors are achieved

B. The target defined for the business case is too accurate ?t should not be measureable

C. The project selected for the pilot is too critical ?f should not be too critical or too trivial

D. The target defined for the business case seems difficult to hit ?it should be realistic

Correct Answer: D

QUESTION 3

![Pass2Lead](https://Pass2Lead.com)
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

Correct Answer: D

QUESTION 4

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

Correct Answer: C

QUESTION 5

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

Correct Answer: B

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

QUESTION 6

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.

Correct Answer: A

QUESTION 7

You are implementing test automation for a project that has a business critical application A test execution tool is being used to run automated regression tests. The results from the test execution tool are very important and need to be 100%

accurate.

You want to merge the test automation results with the test management system that also records the manual test results so that managers can make informed decisions about the progress quickly.

Which layer of the gTAA will be used to ensure the proper reporting occurs and the interfaces to the test management system are handled?

A. The reporting layer

B. The logging layer

C. The execution layer

D. The adaptation layer

Correct Answer: A

QUESTION 8

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

Correct Answer: D

QUESTION 9

You are working on a TAS for standalone application. The automated tests are developed based on a automation framework that allows interaction with GUI elements using on object orientated API. The GUI elements include menus, buttons,

radio buttons, text toolbars and their properties.

Whilst automating a test, you have discovered that the GUI elements of some third party components are not identifiable by the automated tool you are using.

Which of the following is the FIRST step that you take to investigate this issue?

A. Verify the testability support with the providers of the third party components

B. Verify whether the GUI identification depends on the browser.

C. Adopt an approach that uses the coordinates of the GUI elements instead

D. Verify whether naming standards for variables and have been defined for the current automation solution

Correct Answer: A

QUESTION 10

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

QUESTION 11

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

Correct Answer: B

QUESTION 12

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

QUESTION 13

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

QUESTION 14

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

Correct Answer: A

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

QUESTION 15

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