

iSQI

Exam Questions CTAL-TAE

ISTQB Certified Tester Advanced Level-Test Automation Engineering



NEW 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

Answer: C

NEW QUESTION 2

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 3

Assume that you are the TAE responsible for the correct functioning of a TAS, deployed in a test environment that consists of a few machines running the same version of the operating system. The TAS has been working and stable since its deployment, it has been used to run an automated test suite consisting of many similar automated tests. The infrastructure team is planning to update the operating system on these machines by installing a new service pack for security reasons. Since the vendor of the operating system assures full backward compatibility, the infrastructure team assures that there will be no impacts on the functioning of the TAS.

What is the BEST approach to confirm the correct functioning of the TAS in this scenario?

- A. Verify the behavior of the automated tests by running a small test, then gradually run the remaining tests to confirm the correct functioning of the whole automated test suite.
- B. Make sure that the infrastructure team has completed installing the service pack on the machines where SUT is running, then run the whole automated test suite to verify its behavior
- C. Verify the behavior of the whole automated test suite by running all the automated tests
- D. Do not run any tests because you can immediately confirm the correct functioning of the automated test suite

Answer: A

NEW QUESTION 4

Which of the following success factors for a test automation project is TRUE?

- A. Automated tests must be designed to capture only the data that is strictly needed for comparing expected and actual results
- B. The test cases to be automated first must always be selected based on the number of times a test will need to be run
- C. The test cases to be automated must have a high dependency on particular data values
- D. Automated tests that fail due to changes in the requirements of the SUT should be promptly fixed rather than disabled from the test suite

Answer: D

NEW QUESTION 5

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 tools 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 6

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 delivered 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 Level
- 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 level
- 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 level
- F. Create customized hooks at Component level for interface not yet developed or amended
- 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 7

Consider a TAS that is going to be deployed for the first time. The TAS requires shared resources and runs in 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 applications 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 8

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 tests

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 9

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 between 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 10

Which of the following statements 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 to 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 10

Consider a TAS that exclusively uses the APIs of a SUT. To make this work, significant changes have been required to the SUT by adding a set of dedicated test interfaces to the APIs. All the automated tests will use these test interfaces when interacting with the SUT. Assume that you are currently verifying the correctness of the automated test environment and test tool setup.

Which of the following would you expect to be the MOST specific risk associated with this scenario?

- A. The connectivity from the TAS to the dedicated test interfaces will not work
- B. The process of configuring the TAS will be error-prone due to manual intervention
- C. The automated test cases will not contain the expected result
- D. False alarms, that are unlikely to occur in the real world, will be observed during testing

Answer: D

NEW QUESTION 15

A web application was released into production one year ago, it has regular releases which follow a V-model lifecycle and testing is well-established and fully integrated 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 the system (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 19

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 21

Which of the following statements about the reuse of TAS artefacts is TRUE?

- A. Reusable TAS artefacts can include components (or parts of components) associated with different layers of the TAA
- B. To enable reuse of TAS artefacts, a good design for reuse is built into the TAA and to further action are needed during the TAS lifecycle
- C. Communications maintenance and improvements for reusing TAS artefacts are modifyaddressed during the design of the TAA
- D. Reusable TAS artifacts associated with the definition layer of the TAA include the adaptors to the SUT components and/or interfaces

Answer: B

NEW QUESTION 22

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 23

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 25

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?

- ? The configuration of the TAS uses automated installation scripts
- ? 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 27

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 a commercial 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 28

You identified a suitable project to pilot an automation tool and planned and conduced a pilot. The pilot has been successful and tool ls 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 31

Consider a TAS deployed into production. The SUT is aweb 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 33

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