Vendor:ISQI

Exam Code:CTAL-TAE

Exam Name: Certified Tester Advanced Level - Test Automation Engineer (CTAL-TAE)

Version: Demo

QUESTION 1

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

QUESTION 2

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

Correct Answer: B

QUESTION 3

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. So It can be analyzed later

D. Re-run the test automation suite starting from the 1st test.

Correct Answer: C

QUESTION 4

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

Correct Answer: D

QUESTION 5

A project consists of distributed teams working in a 24-hour environment, where activities happen at all

hours of the day. This project adopts a CI (Continuous Integration) process when developer check-in code

and consists of automated activities that include generating a build and deploying it to a test environment.

Automated integration tests are run multiple times a day. The project have asked for a report containing

the automation test results for every build, which must be available 24/7 to the project team.

Which of the following would be the BEST way to automatically provides this report?

A. Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds), use this database to automatically update a dashboard containing the build history and test results accessible to the project team.

B. Store the execution result of the integration tests for the last build to a database (overwriting the results from the previous build), automatically create a test execution report for this build send It via e-mail to the project team

C. Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds). Automatically create a test execution report for this build and send it via e-mail to the project team

D. Store the code coverage results of the integration tests for the last build to a database (without overwriting the results from the previous builds). And automatically create a chart showing the trend in code coverage and send via email to the project team.

Correct Answer: A

QUESTION 6

As a TAE you are evaluating a functional test automation tool that will be for several projects within your organization. The projects require that tool to work effectively and efficiently with SUT\\'s in distributed environments. The test automated tool also needs to interface with other existing test tools (test management tool and defect tracking tool.) The existing test tools subject to planned updates and their interface to the test automated tool may not work property after these updates. Which of the following are the two LEAST important concerns related to the evaluation of the test automation in this scenario? Is the test automation tool able to launch processors and execute test cases on multiple machines in different environments? Does the test automation tool support a licensing scheme that allows accessing different sets? Does the test automation tool have a large feature set, but only part of the features will be sets? Do the release notes for the planned updates on existing specify the impacts on their interfaces to other tools? Does the test automation tool need to install specific libraries that could impact the SUT?

A. A and C

B. A and E

C. B and E

D. C and D

Correct Answer: C

QUESTION 7

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

QUESTION 8

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

Correct Answer: C

QUESTION 9

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 10

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 test. The infrastructure team is planning to update the operating system on these machines by installing a new the service pack for security reasons. Since the vendor of the operating system assurance full backward compatibility, the infrastructure team assurance 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 tests, 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

Correct Answer: D

QUESTION 11

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

Correct Answer: D

QUESTION 12

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

Correct Answer: A