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# CTAL-TAE^Q&As

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

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**QUESTION 1**

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: C

**QUESTION 2**

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 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

Correct Answer: D

**QUESTION 3**

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 4**

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 5**

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: B

**QUESTION 6**

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

**QUESTION 7**

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 8**

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

Correct Answer: A

**QUESTION 9**

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

Correct Answer: D

**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. So It can be analyzed later

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

Correct Answer: C

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