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

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**QUESTION 1**

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 2

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

Correct Answer: A

QUESTION 3

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

Correct Answer: A

QUESTION 4



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 5

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

Correct Answer: A

QUESTION 6

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.

Correct Answer: B

**QUESTION 7**

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 highlights 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 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

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

Correct Answer: A

QUESTION 10

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

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