CTAL-TAE Dumps

ISTQB Certified Tester Advanced Level-Test Automation Engineering

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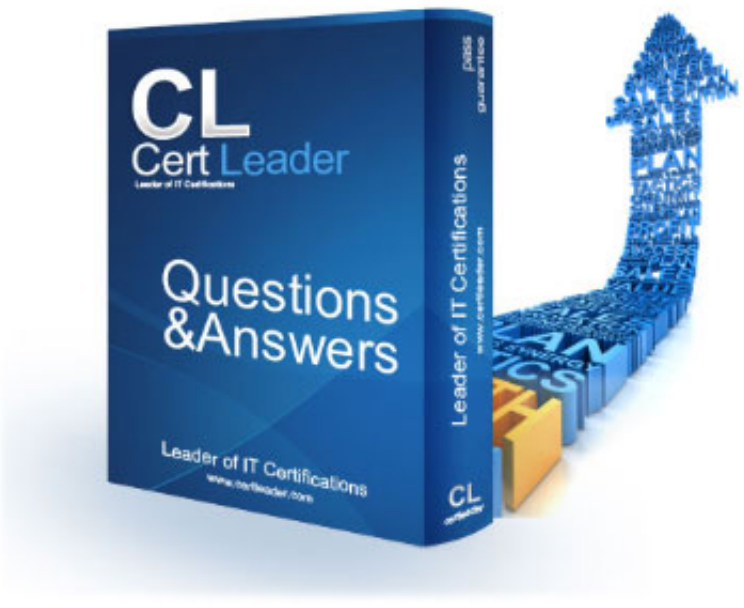

NEW QUESTION 1
Which of the following is NOT an advantage of test automation?

A. The ability to perform tests which would be difficult orimpossible 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
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 itsbehavior
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 3
Which of the following success factors for a test automation project is TRUE?

A. Automated tests must be designed to capture only the datathat 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 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 musthave 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

Answer: D

NEW QUESTION 5
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 findmore defects on the SUT

Answer: C

NEW QUESTION 6
Which of the following statement about the implementation of automated regression testing is FALSE?

A. When automating regression tests, the structure of automated tests mustalways 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, theinitialization steps 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 7
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

Answer: D

NEW QUESTION 8
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 thescripting 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

Answer: C

NEW QUESTION 9
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

Answer: C

NEW QUESTION 10
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 10
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 theintegration 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 testsfor 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 testsfor 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.

Answer: A

NEW QUESTION 11
As a TAE you are evaluating a functional test automation tool that will be for several projects within yourorganization. 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 testautomation 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

Answer: C

NEW QUESTION 15
Consider thefollowing example of TAS metrics. Time to execute automated tests
Speed and efficiency of TAS components Which of the following statements is TRUE?

A. A and B are both internal TAS metrics
B. A is an internal TAS metric and B is an external TAS metric
C. A and b are both external TAS metric
D. A is and external TAS metric and b is an internal TAS metric

Answer: D

NEW QUESTION 19
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

Answer: A

NEW QUESTION 24
Consider a TAS associated to dynamically changing software frequent releases. Your goal is todetermine 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 ofautomated tests requiring maintenance, for each new release of the SUT.

Answer: B

NEW QUESTION 26
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 belogged 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

Answer: A

NEW QUESTION 30
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