iSQI

Exam Questions CTAL-TAE

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
A defect in a SUT has been resolved and validated by an automated defect re-test in the current release of the software. This retest has now been added to the automated regression test suite.
Which statement BEST describes a reason why this defect could re-occur in future releases?

A. Automated defect confirmation testing is not effective at confirming that the resolved defect will continue to work in future releases
B. Theconfiguration management process does not properly control the synchronization between software archives
C. The automated regression test suite is not run consistently for future releases.
D. The automated regression test suite has a narrower scope of functionality

Answer: B

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 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 4
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 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 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
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 7
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 8
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 9
You are using a gTAA to create a TAS for a project. The TAS is aimed at automatically and executing test cases based on a use-case Modeling approaching that uses UML as a modeling language. All the interaction between TAS and SUT will only be at the API and GUI level.
Which of the following components of the gTAA would you EXCLUDE from the TAS?

A. The test reporting component of the test execution layer.
B. The Test execution component of the test generation layer
C. The test execution (test engine of the test execution layer
D. The Command Line Interface (CLI) component of the test adaptation layer

Answer: D

NEW QUESTION 10
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 10
A TAS uses a commercial test automation tool and the default logs generated by the inconsistent formats such as different types of messages (pass/fail steps, screenshots, warnings, etc.) To solve this issue some custom logging functions have been created from the test scripts, making it possible to log the different types of messages with the same format. However, this may cause a problem due to excessive size of the logs which can make it difficult to find the required information. Assume that all the default logs will be disabledwhen running the automated tests and that some tests will not generate excessively sized logs.
Which of the following represents the BEST suggestion for implementing the custom logging functions?

A. Implement the custom logging functions without saving timestamps
B. Implement the custom logging functions to support different levels of tracing
C. Implement the custom logging functions without saving stack traces
D. Implement the custom logging functions to redirect the logs to multiple files

Answer: B

NEW QUESTION 11
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 13
Which of the following statements does NOT describe good practice for maintaining the TAS?

A. The TAS must run in the development environment because development and programming knowledge are required for its maintainability
B. The TAS must be under configuration management, along with the test suite, the testware artefacts and the test environment in which it runs
C. The TAS must separate the test scripts fromthe environment in which it runs and fromthe associated harnesses and artefacts

D. The TAS must consist of components that can be easily replaced without affecting the overall behavior of the TAS itself

Answer: A

NEW QUESTION 14
Youare 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.
Whichof 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 19
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 themagainst 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 23
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 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 29
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