ISQI.CTAL-TAE.v2022-04-09.q20

Exam Code:	CTAL-TAE
Exam Name:	ISTQB Certified Tester Advanced Level, Test Automation Engineering
Certification Provider:	ISQI
Free Question Number:	20
Version:	v2022-04-09
# of views:	1191
# of Questions views:	200
https://www.freeqas.com/qa/ISQI/CTAL-TAE/ISQI.CTAL-TAE.v2022-04-09.q20.html	

NEW QUESTION: 1
Consider the following layers of the gTAA structure:
a.Test generation layer
b.Test definition layer
c.Test execution layer
d.Test execution layer
Consider the following capabilities associated with these layers.
Acquire all the necessary resources before each test and release all after run, in order to avoid interdependences between test Allow the automated test scripts on an abstract level to interact with components, configurations and interfaces of the SUT.
Design test directives that allow configuring the algorithms used to automatically produce the test cases a given model of the SUT.
Allow the definition and implementation of test cases and data by means of templates and/or guidelines.
Which of the following BEST matches each layer with the appropriate capability?
A. a-3, b-4, c-1, d-2
B. a-4, b-3, c-2, d-1
C. a-3, b-4, c-2, d-1
D. a-4, b-3, c-1, d-2
Answer: B (LEAVE A REPLY)

NEW QUESTION: 2
What is NOT a factor in considering when you are asked to ensure an effective transition from manual to automated tests?

A. The look andfeel of the SUT
B. The controllability of the SUT
C. Complexity to automate the manual test cases
D. Correctness of test data and test cases
Answer: A (LEAVE A REPLY)

NEW QUESTION: 3
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. Linear scripting
B. Data-driven scripting
C. Structure scripting
D. Keyword-driven scripting
Answer: (SHOW ANSWER)

NEW QUESTION: 4
Which of the following statements does NOT describe good practice for maintaining the TAS?
A. The TAS must be under configuration management, along with the test suite, the testware artefacts and the test environment in which it runs
B. The TAS must run in the development environment because development and programming knowledge are required for its maintainability
C. The TAS must consist of components that can be easily replaced without affecting the overall behavior of the TAS itself
D. The TAS must separate the test scripts fromthe environment in which it runs and from the associated harnesses and artefacts
Answer: B (LEAVE A REPLY)

NEW QUESTION: 5
You are working on a TAS forstandaloneapplication. The automated tests are developed based on a automation framework that allows interaction with GUI elements using on object orientated API. The GUI elements includemenus, 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 whether naming standards for variables and have been defined for the current automation solution
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 the testability support with the providers of the third party components
Answer: C (LEAVE A REPLY)

NEW QUESTION: 6
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. Verify the behavior of the whole automated test suite by running all the automated tests
C. 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
D. Do not run any tests because you can immediately confirm the correct functioning of the automated test suite
Answer: D (LEAVE A REPLY)

NEW QUESTION: 7
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 defect density in the automation code of the regression test suite.
B. The SUT code coverage provided by the execution of the regression test suite.
C. The ratio of comments to executable statements in the SUT code.
D. The ratio of commands to executable statements in the automation code of the regression test suite
Answer: A (LEAVE A REPLY)

NEW QUESTION: 8
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 stepthat you take to investigate this issue?
A. Verify the testability support with the providers of the third party components
B. Verify whether naming standards for variables and have been defined for the current automation solution
C. Verify whether the GUI identification depends on the browser.
D. Adopt an approach that uses the coordinates of the GUI elementsinstead
Answer: A (LEAVE A REPLY)

NEW QUESTION: 9
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 sameversion 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?
* The configuration of the TAS uses automated installation scripts
* 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. B and d
B. A and d
C. A and e
D. B and c
Answer: C (LEAVE A REPLY)

NEW QUESTION: 10
What is NOT a factor in considering when you are asked to ensure an effective transition from manual to automated tests?
A. Correctness of test data and test cases
B. The controllability of the SUT
C. Complexity to automate the manual test cases
D. The look and feel of the SUT
Answer: (SHOW ANSWER)

NEW QUESTION: 11
You are reviewing the testability of your SUT.
Which of the following BEST refers to the characteristic of OBSERVABILITY?
A. The ability to exercise the SUT by entering inputs, triggering events and invoking methods
B. The ability of the SUTto perform its intended function for a specified period of time
C. The abilityto identify states, outputs, intermediate result and error messages in the SUT
D. The ability of the SUT to prevent unauthorized access to its components or data.
Answer: C (LEAVE A REPLY)

NEW QUESTION: 12
Which of the following attributes should NOT be included in a test execution report associated with a suite of automated tests?
A. Defect clusters identified during test execution
B. Environment in which the tests have been executed
C. System/Application under test and its version
D. Summary of the test execution results
Answer: D (LEAVE A REPLY)

NEW QUESTION: 13
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. The automated regression test suite has a narrower scope of functionality
B. Automated defect confirmation testing is not effective at confirming that the resolved defect will continue to work in future releases
C. The automated regression test suite is not run consistently for future releases.
D. Theconfiguration management process does not properly control the synchronization between software archives
Answer: D (LEAVE A REPLY)

NEW QUESTION: 14
Which of the following BEST describes why it is important to separate test definition from test execution in a TAA?
A. It allows testers to findmore defects on the SUT
B. It allows specify test cases without being closely tied to the tool to run them against the SUT
C. It allows developing steps of the test process without being closely tied to the SUT interface.

D. It allow choosing different paradigms (e.g event-driven) for the interaction TAS and SUT
Answer: B (LEAVE A REPLY)

NEW QUESTION: 15
You identified a suitable project to pilot an automation tool and planned and conduced a pilot. The pilot has been successful and tool Is being deployed within your organization, with a plan to increase tool use by the one project at a time. During this rollout some test processes will be changed slightly to gain additional benefits from using the tool.
In the pilot project, a small set of manual tests were automated for the first time. You are currently monitoring the test automation efficiency and this reveals that the automationregimefor the tests is not yet mature.
Which of the following statements is TRUE?
A. The target defined for the project was inappropriate, because the automationregimeforthe automated tests at the end of the pilot is not yet mature.
B. The pilot project should have been critical so that maximum benefits were delivered
C. The test process should be radically changed to gain additional benefits from using the tool.
D. The approach used for deployed this tool is aligned to the standard success factor for deployment
Answer: C (LEAVE A REPLY)

NEW QUESTION: 16
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 time it takes to execute all the automated tests, for each new release of the SUT.
B. The code coverage achieved with the automated tests, for each new release of the SUT
C. The number of automated tests requiring maintenance, for each new release of the SUT.
D. The number of automated tests which fail because of a single software defect, for each new release of the SUT
Answer: D (LEAVE A REPLY)

NEW QUESTION: 17
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 SUT code coverage provided by the execution of the regression test suite.
B. The ratio of commands to executable statements in the automation code of the regression test suite
C. The ratio of comments to executable statements in the SUT code.
D. The defect density in the automation code of the regression test suite.
Answer: (SHOW ANSWER)

NEW QUESTION: 18
You have been asked to determine a TAS for a new release of a SUT,test should be automated wherever. The new release will consist of 5 new interfaces and an amendment to 3 existing interfaces. The new and amended interface will be deliver incrementally in 3 sprints, each lasting 2 weeks.
What would be the BEST Test Automation Solution (TAS) design in this scenario?
A. Automate a test at once level, component level, Create customized interface/test hooks for this level where the interface has not yet been developed or amended.
B. Automate the tests at two levels, Component and System level. Create customized hooks at Component level for interface not yet developed or amended. Only use the newly developed or amended interfaces to test at System level.
C. Automate tests at one level only, System level. Use only the newly developed interfaces and do not create any customized interfaces/test hooks.
D. Automate tests at both Component and System Level. Only do this automation once every interface has been fully developed or amended and manual testing has completed successfully.
Answer: D (LEAVE A REPLY)

NEW QUESTION: 19
Consider a TAS that isgoing 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 othertarget 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 wouldyou expect to be MOST effective at mitigating the risk associated with the first deployment of the TAS?
A. Testing the TAS for its ability to be implemented in other target test environments.

B. Testing the TAS for ITS ability to run a shared test environment
C. Testing the TAS for application compatibility issues in the target environment
D. Testing the TAS for regressions due to optimization that fix non-functional issues.
Answer: (SHOW ANSWER)

NEW QUESTION: 20
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. Linear scripting
B. Structure scripting
C. Data-driven scripting
D. Keyword-driven scripting
Answer: (SHOW ANSWER)