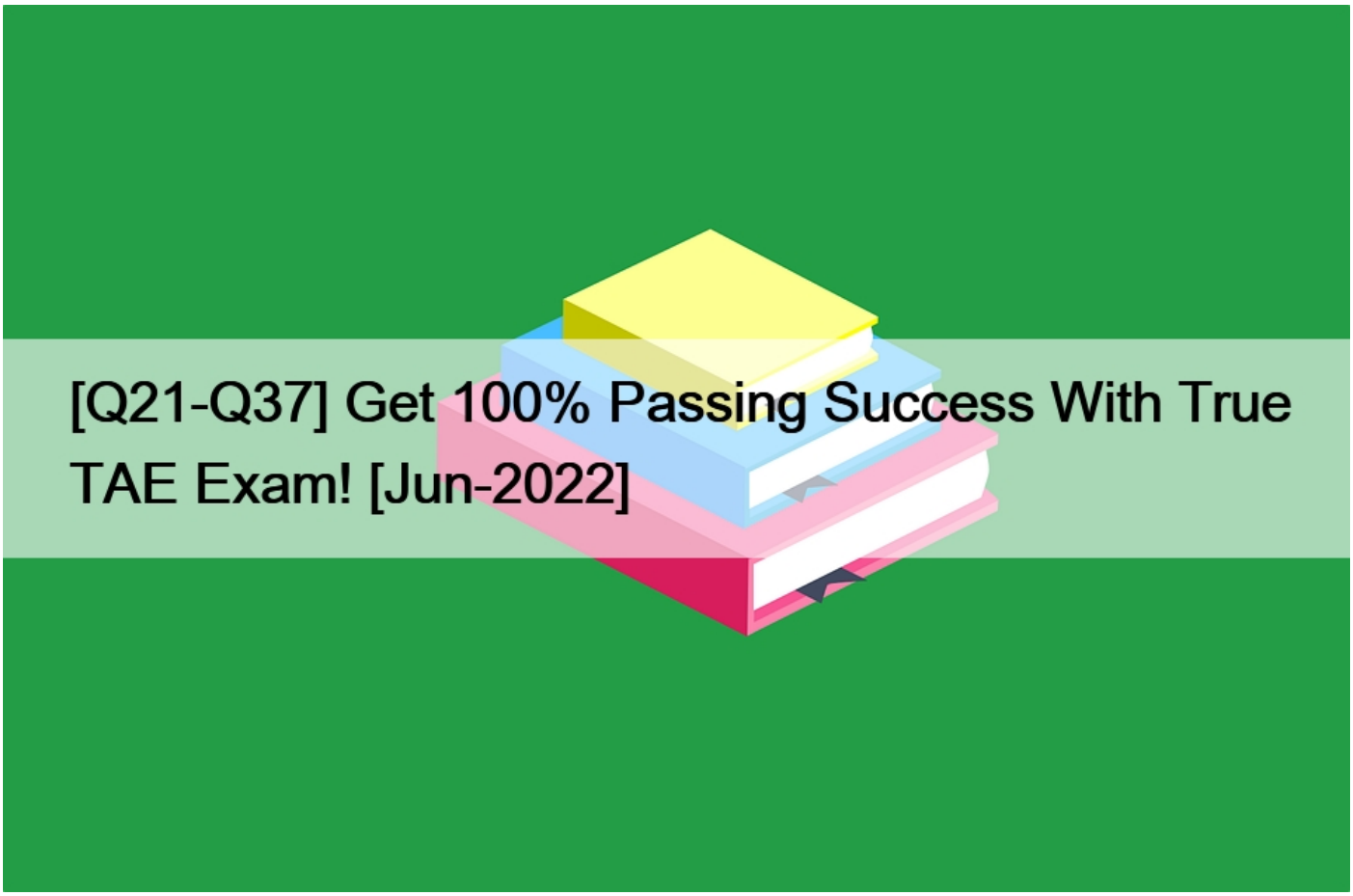
[Q21-Q37 Get 100% Passing Success With True TAE Exam! [Jun-2022



Get 100% Passing Success With True TAE Exam! [Jun-2022 BCS TAE PDF Questions - Exceptional Practice To ISTQB Certified Tester Advanced Level: Test Automation Engineer Q21. You are currently designing the TAA of a TAS. You have been asked to adopt an approach forautomatically generating and executing test cases from a model that defines the SUT. The SUT is a state-based and event-driven that is described by a finite-state machine and exposes its functionality via an API. The behavior of the SUT depends on hardwareand communication links that can be unreliable.

Which of the following aspects is MOST important when designing the TAA in this scenario?
* Looking for tools that allows direct denoting of exceptions and actions depending on the SUT events.
* Adopting a test definition strategy based on classification tree coverage for the test definition layer.
* Looking for tools that allow performing setup and teardown of the test suites and the SUT.
* Adopting a test definition strategy based on use case/exception case coverage for the definition layer.

Q22. Which of the following statements does NOT describe good practice for maintaining the TAS?
* The TAS must run in the development environment because development and programming knowledge are required for its maintainability
* The TAS must be under configuration management, along with the test suite, the testware artefacts and the test environment in which it runs
* The TAS must separate the test scripts from the environment in which it runs and from the associated harnesses and artefacts

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

Q23. 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

11thtest. 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 afterthe abnormal occurred when executing the 11thtest?
* Re-run the test automation suite starting from the 12thtest
* Return the database to a consistent state that allows subsequent test to run
* Take a backup of the database in its current state. So It can be analyzed later
* Re-run the test automation suite starting from the 1sttest.

Q24. 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?
* 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.
* 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
* Verify the behavior of the whole automated test suite by running all the automated tests
* Do not run any tests because you can immediately confirm the correct functioning of the automated test suite

Q25. Designing the System Under Test (SUT) for testability is important for a good test automation approach and can also benefit manual test execution.

Which of the following is NOT a consideration when designing for testability?
* Observability: The SUT needs to provide interface that give insight into the system.
* Re-useability: The code written for the SUT must be re-useable for other similar system.
* Clearly defined architecture: The SUT Architecture needs to provide clear and understandable interfaces giving control and visibility on all test levels.
* Control: the SUT needs to provide interfaces that can be used to perform actions on SUT.

Q26. What is NOT a factor in considering when you are asked to ensure an effective transition from manual to automated tests?
* Complexity to automate the manual test cases
* Correctness of test data and test cases
* The look and feel of the SUT
* The controllability of the SUT

Q27. Which of the following statements BEST describe aspects of the SUT to consider when designing a TAA?
* All the interaction between SUT and TAS should belogged with the highest level of detail
* All the internal test interfaces of the SUT should be removed prior to the product release

* All the interface of the SUT affected by the tests should be controllable by the TAA
* All the external test interfaces of the SUT should be removed prior to the product release

Q28. Which of the following is NOT a technical design consideration for a TAA?
* The number of users for the SUT
* Availability of interfaces for the SUT to be testable
* Standards and Legal requirements,e.g data privacy
* Data used by the SUT, e.g configuration, users

Q29. You are reviewing the testability of your SUT.

Which of the following BEST refers to the characteristic of OBSERVABILITY?
* The ability of the SUTto perform its intended function for a specified period of time
* The ability to exercise the SUT by entering inputs, triggering events and invoking methods
* The ability of the SUT to prevent unauthorized access to its components or data.
* The abilityto identify states, outputs, intermediate result and error messages in the SUT

Q30. Consider A TAS for testing adesktop application via its GUI. All the test cases of the automated test suite contain the same identical sequences of steps at the beginning (to create the necessary objects when doing a preliminary configuration of the test environment and at the end (to remove everything created -specifically for the test itself during the preliminary configuration of the test environment). All automated test cases use the same set of assertion functions from a shared library, for verifying the values in the GUI fields(e.g text boxes).

What is the BEST recommendation for improving the TAS?
* Implementing keywords with higher level of granularity
* Improving the architecture of the application in order to improve its testability
* Adopting a set of standard verification methods for use by all automated tests
* Implementing standard setup and teardown functions at test case level

Q31. Which of the following BEST describes why it is important to separate test definition from test execution in a TAA?
* It allows developing steps of the test process without being closely tied to the SUT interface.
* It allow choosing different paradigms (e.g event-driven) for the interaction TAS and SUT
* It allows specify test cases without being closely tied to the tool to run them against the SUT
* It allows testers to findmore defects on the SUT

Q32. A regression test suite consist of 500 test cases which are allexecuted 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 lastedone 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?
* Theduration of the pilot project was too short -it should last unit the success factors are achieved
* The target defined for the business case is too accurate -it should not be measureable
* The project selected for the pilot is too critical -if should not be too critical or too trivial
* The target defined for the business case seems difficult to hit – it should be realistic

Q33. 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.

Inthe 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 automation regime for the tests is not yet mature.

Which of the following statements isTRUE?
* The approach used for deployed this tool is aligned to the standard success factor for deployment
* The pilot project should have been critical so that maximum benefits were delivered
* The target defined for the project was inappropriate, because the automation regime for the automated tests at the end of the pilot is not yet mature.
* The test process should be radically changed to gain additional benefits from using the tool.

Q34. Which of the following success factors for a test automation project is TRUE?
* Automated tests must be designed to capture only the datathat is strictly needed for comparing expected and actual results
* The test cases to be automated first must always be selected based on the number of times a test will need to be run
* The test cases to be automated must have a high dependency on particular data values
* Automated tests that fail due to changes in the requirements of the SUT should be promptly fixed rather than disabled from the test suite

Q35. 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 writingthe 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
* Changing the scripting approach to data-driven scripting
* Implementing keywords with a higher level of granularity
* Changing the wait mechanism to explicit hard-coded waits
* Establishing an error recovery process for TAS and SUT

Q36. Which of the following attributes should NOT be included in a test execution report associated with a suite of automated tests?
* Summary of the test execution results
* System/Application under test and its version
* Defect clusters identified during test execution
* Environment in which the tests have been executed