ISTQB

Exam Questions CT-TAE

Certified Tester Test Automation Engineer

NEW QUESTION 1
Your goal is to verify completeness, consistency and correct behavior of an automated test suite. The TAS has been proven to successfully install in the SUT environment. All the preliminary checks to verify the correct functioning of the automated test environment and test tool configuration, installation and setup have successfully completed.
Which of the following is NOT a relevant check for achieving your goal in this scenario?

A. Checking whether all the test cases contain the expected results
B. Checking whether the post condition have been fulfilled for all the test cases
C. Checking whether the loading of the TAS is repeatable in the SUT environment
D. Checking whether all the test cases produce repeatable outcomes

Answer: D

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. Complexity to automate the manual test cases
B. Correctness of test data and test cases
C. The look and feel of the SUT
D. The controllability of the SUT

Answer: C

NEW QUESTION 3
You have executed an automated test suite for a product that was released into production. Although all the tests passed, there was a major failure in production in an area that was covered well by your automated tests.
You have run the automated tests again and one of the tests is now failing and this is directly related to the production defect that was raised. You decide to run the automated test suite again on the same version of the SUT and the test now passes.
What SHOULD you do now to verify the validity of the automated tests?

A. Remove the intermittently failing test from the test suite and investigate the reason why the test sometimes passes and sometimes fails.
B. Check that the production defect that was reported was an actual defect
C. Run the automated test suite again and if the test now passes - do nothing
D. Reference: https://www.researchgate.net/publication/341396240_Intermittently_Failing_Tests_in_the_ Embedded_Systems_Domain

Answer: A

NEW QUESTION 4
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 step that you take to investigate this issue?

A. Verify the testability support with the providers of the third party components
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 whether naming standards for variables and have been defined for the current automation solution

Answer: A

NEW QUESTION 5
You are implementing test automation for a project that has a business critical application A test execution tool is being used to run automated regression tests. The results from the test execution tool are very important and need to be 100% accurate.
You want to merge the test automation results with the test management system that also records the manual test results so that managers can make informed decisions about the progress quickly.
Which layer of the gTAA will be used to ensure the proper reporting occurs and the interfaces to the test management system are handled?

A. The reporting layer
B. The logging layer
C. The execution layer
D. The adaptation layer

Answer: A

NEW QUESTION 6
New features have been added for the current release of a SUT.
Which action would NOT be appropriate for the TAE to perform when evaluating the impact on the TAS?

A. Gather feedback from the Business Analysts to determine if the current TAS will meet the needs of the new features.
B. Review existing keywords to see if they need to be modified.
C. Run existing automated tests against the updated SUT to verify and record any changesto their correct operation.
D. Evaluate compatibility with existing test tools and, where necessary, identify alternative solutions.

Answer: A

NEW QUESTION 7
You have investigated a new tool which enables the modelling of the SUT and can then generate test cases either manually or automatically. You have convinced your managers that the best way forward is to conduct a pilot project for this tool. You need to select a project to use for the pilot. You have the choice of the following projects:
Project A: A two-year project that is critical to the business and is currently in the requirement phase. This project is for a new e-commerce web site and is mostly being developed ??in-house" although the payment system is being developed and delivered by a 3rd party provider.
Project B: A safety critical application for software to drive and park cars.
Project C: An upgrade to an important HR timesheet tracking application that will be available on a desktop and mobile application. This is a 1-month project developed in- house.
Project D The payment system from project A. Which project would be BEST for the pilot?

A. Project A because it is a large project and has high visibility and is in the requirement phase.
B. Project B because it is a safety critical system and has high visibility.
C. Project C because it is a short, low priority project but is important.
D. Project D because it is a small part of a larger project and will help show the tool??s capabilities.

Answer: D

NEW QUESTION 8
You have inherited a TAS that is working well it uses keyword-driven scripting and was well architected. The automation architect who built the system has now moved on to another company. The TAS is working across several projects and has a multiple library of keywords, categorised by project. The individual project teams maintain these keyword scripts.
Based only on the given information, what is the MOST significant risk for the TAS?

A. The keyword driven scripts may become out of date if not maintained
B. The level of abstraction, coupled with the departure of the architect may make the system hard to maintain
C. New projects may not work as well with the TAS as the current projects
D. Because the keyword scripts are maintained by different teams, there is a likelihood that good coding standards are not followed

Answer: B

NEW QUESTION 9
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?

A. Observability: The SUT needs to provide interface that give insight into the system.
B. Re-useability: The code written for the SUT must be re-useable for other similar system.
C. Clearly defined architecture: The SUT Architecture needs to provide clear and understandable interfaces giving control and visibility on all test levels.
D. Control: the SUT needs to provide interfaces that can be used to perform actions on SUT.

Answer: B

NEW QUESTION 10
In order to achieve re-use of a TAS, where SHOULD the design for reuse occur?

A. At the code level
B. At the framework level.
C. At the TAS level
D. At the TAA level

Answer: C

NEW QUESTION 10
You are working on a web-based application called Book Vault that allows people to upload books and order books. This application must be available on all major browsers.
You have been testing the application manually and management have asked you to consider automating some of the tests.
You have investigated a number of commercial and free tools which can automate tests at a web browser level and one tool in particular meets your requirements and you have implemented a trial version.
You have basic programming skills and the main goal is to automate a few functional tests to see if the tool is compatible with the application and can recognise the objects and controls.
Which scripting technique would be MOST suitable in this scenario in order to meet the objectives?

A. Structured scripting
B. Capture-replay scripting
C. Data-driven scripting
D. Model-based scripting

Answer: B

Explanation:
Reference: https://www.professionalqa.com/capture-tool

NEW QUESTION 14
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.

Answer: B

NEW QUESTION 16
You have been asked to implement test automation for a project that is not meeting its deadlines. After further analysis you discover that the manual testers are not able to keep up with the new feature testing because the regression testing is taking 75% of their time. As a result, the new features are being released with many defects and customers are complaining about the quality.
Given this information, what metric SHOULD you be tracking to show the value of test automation for this project?

A. Percentage of code covered by the test automation.
B. Equivalent Manual Test Effort for the automated tests.
C. Number of defects found by test automation.
D. Percentage of builds accepted/rejected by the automated tests.

Answer: B

Explanation:
Reference: https://blog.testproject.io/2019/12/04/how-to-measure-the-value-of-your-test- automation/

NEW QUESTION 18
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-phone 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

Answer: D

NEW QUESTION 23
Which of the following describes how a test execution report is likely to be used?

A. To understand which test step caused the failure in a test case
B. To identify problematic areas of the SUT by keeping a history showing which test cases fail the most
C. To measure coverage of the test basis by a test suite
D. To record how a test case failure has been fixed

Answer: B

Explanation:
Reference: https://www.guru99.com/how-test-reports-predict-the-success-of-your-testing- project.html

NEW QUESTION 26
You are currently designing the TAA of a TAS. You have been asked to adopt an approach for automatically 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 hardware and communication links that can be unreliable.
Which of the following aspects is MOST important when designing the TAA in this scenario?

A. Looking for tools that allows direct denoting of exceptions and actions depending on the SUT events.
B. Adopting a test definition strategy based on classification tree coverage for the test definition layer.
C. Looking for tools that allow performing setup and teardown of the test suites and the SUT.
D. Adopting a test definition strategy based on use case/exception case coverage for the definition layer.

Answer: C

NEW QUESTION 29
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 33
What is the PRIMARY advantage of using abstraction in the TAA?

A. It makes it more flexible for future reuse and improvements
B. It requires a higher skill level to implement
C. It ensures that any scripting method will be supported
D. It improves the performance of the TAS

Answer: A

Explanation:
Reference: https://www.techtarget.com/whatis/definition/abstraction

NEW QUESTION 37
Your TAS has been running successfully on a Windows/GUI based SUT for some years. The SUT has undergone minimal change over the years to maintain business as usual, deploying six-monthly releases for minor enhancements and bug fixes using a waterfall lifecycle.
The TAS has not changed at all during this period. The current project for the SUT will be using the Scrum methodology to deliver a more modern, competitive, user interface. It is in the release planning stage with an agreed release backlog and set of sprints outlined.
The move from lengthy waterfall releases to shorter sprints has led you to conduct a review of the current TAS to make sure it is robust and fully optimised for the timescale challenges of the new project.
What two steps would be BEST to undertake during the review?
a) Ensure that new automation code is using the same naming conventions as existing code.
b) Perform a full regression run in Sprint 1 to identify what improvements could be made to the TAS for future sprints.
c) Ensure that the TAS is using the latest libraries for the operating system.
d) Review the functions that act upon the controls for the GUI for possible consolidation.
e) Involve the test team to see what ease-of-use improvements they would like to see made to the TAS.

A. c and d
B. b and c
C. a and b
D. d and e

Answer: B

NEW QUESTION 40
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

Answer: A

NEW QUESTION 44
If model-based testing has been selected for the overall test automation approach for a project, how does that influence the layers of the TAA?

A. All layers are used, but the test generation layer will be automated based on the defined model
B. There will be no need for the execution layer
C. No adaptation will be needed because the interfaces will be defined by the model
D. There will be no need to design the tests for the API because those will be covered by the model

Answer: A

Explanation:
Reference: https://www.guru99.com/automation-testing.html

NEW QUESTION 49
As a TAE you are evaluating a functional test automation tool that will be for several projects within your organization. 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?
A) Is the test automation tool able to launch processors and execute test cases on multiple machines in different environments?
B) Does the test automation tool support a licensing scheme that allows accessing different sets?
C) Does the test automation tool have a large feature set, but only part of the features
will be sets?
D) 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 51
Consider A TAS for testing a desktop 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?

A. Implementing keywords with higher level of granularity
B. Improving the architecture of the application in order to improve its testability
C. Adopting a set of standard verification methods for use by all automated tests
D. Implementing standard setup and teardown functions at test case level

Answer: A

NEW QUESTION 54
What are the four horizontal layers of the gTAA?

A. Test adaptation, test execution, test design, test definition
B. Test generation, test execution, test definition, test APIs
C. Test generation, test definition, test execution, test adaptation
D. Test definition, test execution, test reporting, test adaptation

Answer: C

Explanation:
Reference: https://www.slideshare.net/jannatindia/chapter-3-the-generic-test-automation-architecture

NEW QUESTION 56
Consider the following 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 59
You have been asked to develop test automation for a legacy system that is going to go through a series of infrastructure migrations. The scripts will be used to verify basic functionality during these infrastructure changes Your Test Analysts have some programming skills and need a solution that is simple and fast. Maintainability of the scripts is not a consideration because no changes to the software are anticipated.
Which of the following is the BEST scripting approach in this situation?

A. Structured scripting
B. Capture-replay scripting
C. Model-Based scripting
D. Linear scripting

Answer: B

NEW QUESTION 61
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

Answer: B

NEW QUESTION 65
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