CT-TAE Dumps

Certified Tester Test Automation Engineer

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NEW QUESTION 1
You are 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.
Which of 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 2
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 3
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 them against 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 4
You are implementing a TAS for a system that has been live for over three years, using a hybrid waterfall and agile lifecycle. Live updates are made on a monthly basis.
There is no test team, with developers designing and executing unit and integration tests with some degree of automation and business analysts designing and executing manual tests at the system level. No formal test process exists, although the system has proved relatively stable for most of the time.
Unfortunately, the last two monthly releases were problematic with regression defects found in production. Your priority is the automation of functional regression tests at the system level, the budget for this has been approved by project stakeholders.
The Business Analysts have identified which test cases are most suitable for regression. You must use the organisation's long standing commercial automation tool which has passed a proof of concept in the platform for the system in question.
Which of the following suitability criteria needs the MOST attention for the TAS?

A. Technical planning in support of ROI analysis
B. Frequency of use.
C. Compatibility and tool support
D. Maturity of the test process

Answer: C

Explanation:
Reference: https://www.softwaretestinghelp.com/guide-to-functional-testing/

NEW QUESTION 5
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 6
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. The configuration 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 7
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-1, d-2
C. a-4, b-3, c-2, d-1
D. a-3, b-4, c-2, d-1

Answer: C

NEW QUESTION 8
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 9
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 10
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 must have 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 10
Your functional regression test automation suite ran successfully for the first two sprints and no failures were encountered during the runs. The automation suite records the status of each test case as either 'pass' or 'fail' and has excellent recovery capability built in.
For the third sprint, the TAS log reported several test cases with a status of 'fail'. You investigated each test case and found that most failures were due to a defect in one of the keyword scripts, rather than in the SUT. For those where the failure was in the SUT, defectreports were raised but several were returned by the developers asking for more information to enable them to reproduce the problem.
Which additional log items SHOULD you add to the TAS that would BEST improve failure analysis and defect reporting for future sprints?
a) Dynamic measurement information about the SUT.
b) A status of TAS error??, in additional to pass' and 'fail', for each test case.

c) Use of a colour coding scheme so that 'pass??' is in red and fail' is in green.
d) A counter to determine how many times each test case has been executed.
e) System configuration information including software/firmware and operating system versions.
f) A copy of the source code for all Keyword scripts executed.

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

Answer: B

NEW QUESTION 12
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 after the abnormal occurred when executing the 11thtest?

A. Re-run the test automation suite starting from the 12thtest
B. Return the database to a consistent state that allows subsequent test to run
C. Take a backup of the database in its current stat
D. So It can be analyzed later
E. Re-run the test automation suite starting from the 1sttest.

Answer: C

NEW QUESTION 17
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 runthe 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 its behavior
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 18
You are evaluating several test modelling tools and are wanting to automatically generate test cases within the tool where many different combinations of input data are created.
You are then wanting to export the test cases into a csv file which can then be read by a functional test execution tool using a data-driven or keyword-driven scripting method.
You have investigated several tools and there is only one tool that provides all the necessary features defined by your team with the exception of the export facility. It does not provide an export into either .xls or .csv formats.
What would be the BEST next step regarding the selection of this tool?

A. Consider another tool that is more ??fit for purpose" and has all the features required.
B. Explore the possibility of creating your own export facility.
C. Ask the vendor and use forums to see if a solution is available or going to be available in the future.
D. Purchase this tool and generate the .csv file manually.

Answer: C

NEW QUESTION 21
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 automaticallyupdate a dashboard containing the build history and test results accessible to the project team.
B. Store the execution result of the integration 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 tests for 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 tests for 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 23
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 25
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 29
You are the TAE for an Agile project which has six sprints for the current release. Sprint five is underway and the automated regression suite is due to start later today.
You have re-examined the results from the automated regression runs for the past four sprints. You notice that two test cases both reported a pass for sprints 1 and 4 but a fail for sprints 2 and 3. The failures have gone undetected and are therefore unexplained. Both test cases are closely coupled with other tests in the suite.
What course of action SHOULD you take?

A. Run the regression suite as planned and see If the tests fail again if they do, determine the cause of failure.
B. Remove the test cases from the regression suite and refer them to the test designer for manual testing for future sprints.
C. Quarantine the test cases, run the regression suite without them, and perform root cause analysis on the test cases in parallel.
D. Run the test cases manually no
E. If they still pass, keep them in the regression suite, if they fail perform root cause analysis.

Answer: C

Explanation:
Reference: https://www.softwaretestinghelp.com/regression-testing-tools-and-methods/

NEW QUESTION 33
Consider a TAS deployed into production. The SUT is a web application and the test suite consists of a set of automated regression tests developed via GUI. A keyword-driven framework has been adopted for automating the regression tests. The tests are based on identification at low-levels of the web page components (e.g class indexes, tab sequence indexes and coordinates) in the next planned release the SUT will be subject to significant corrective maintenance (bug-fixes) and evolution (new features) Maintenance costs to update the test scripts should be as low as possible and the scripts must be highly reusable.
Which of the following statements is most likely to be TRUE?

A. The keyword-driven framework is not suitable, it would be better to adopt a structured- scripting approach
B. False positive errors are likely to occur when running the automated tests on the new releases without modifying the test
C. The total execution time of the automated regression test suite will decrease for each planned release.
D. The keyword-driven framework introduces a level abstraction that is too high and makes it difficult what really happens

Answer: A

NEW QUESTION 34
You have implemented a keyword-driven scripting framework, which uses a test execution tool to run the tests. This has been in use for the past year and all of the teams now use this framework as the standard approach for test execution.
The teams all work on different aspects of the SUT and they have all experienced significant benefits in the use of this scripting framework. However, on closer examination, you have discovered that there are numerous instances where the teams have the same functionality to test but are using different keywords.
One of your objectives for improvement is to create consistency among the teams. What is the BEST way to handle this situation?

A. Move to a model-based approach to scripting where the models include the keywords.
B. Do nothing, each team are working in isolation and they are all experiencing significant benefits in the way they are currently working.
C. Provide each team with a set of guidelines and naming conventions for keywords.
D. Create a central library of keywords and associated definitions for each team to use.

Answer: D

Explanation:
Reference: https://www.scriptworks.io/blog/automation-testing-framework/

NEW QUESTION 36
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 40
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 42
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 46
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 disabled when 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 50
Which of the following is NOT an advantage of test automation?

A. The ability to perform tests which would be difficult or impossible 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 55
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 58
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 62
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 63
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 65
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 68
The Test Automation Manager has asked you to provide a solution for collecting metrics from the TAS that measures code coverage every time the automated regression test pack is run. The metrics must be trend based to ensure that the scope of the regression test pack continues to reflect enhancements made to the SUT - coverage must not drop and should ideally increase. The solution must be as automated as possible to avoid unnecessary manual overheads and errors. Which of the following approaches would BEST meet these requirements?

A. Test automation cannot measure code coverage for the SUT, only the code for the automation tools and script
B. The automated test cases would need to be run manually with a code coverage and reporting tool running in the background.
C. The automated testware would record overall code coverage for each run and add the figure to a new row in a pre-formatted Excel spreadshee
D. You would then present the spreadsheet to stakeholders so they could look for changes in coverage.
E. The automated testware would record overall code coverage for each run, export the data to a pre-formatted Excel spreadsheet that automatically updates a trend analysis bar chart for you to distribute to stakeholders.
F. The automated testware would record the pass/fail rate of each regression test case, export the data to a pre-formatted Excel spreadsheet that automatically updates a trend analysis success rate bar chart and emails it to stakeholders.

Answer: C

NEW QUESTION 72
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 thesystem (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 73
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 77
Which of the following CORRECTLY describes how automation SHOULD be applied to confirmation testing?

A. Confirmation tests are not good candidates for automation as they are not designed to run many times
B. Confirmation tests should only be automated if they fail to pass on the first attempt
C. Confirmation tests can be automated and incorporated into an automated regression suite to show whether defects that were previously fixed reoccur
D. A confirmation test should only be automated after it has been run manually

Answer: C

NEW QUESTION 80
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