# Exam Questions CT-TAE

Certified Tester Test Automation Engineer

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**NEW QUESTION 1**
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 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**
You are reviewing the testability of your SUT.
Which of the following BEST refers to the characteristic of OBSERVABILITY?

A. The ability of the SUT to perform its intended function for a specified period of time
B. The ability to exercise the SUT by entering inputs, triggering events and invoking methods
C. The ability of the SUT to prevent unauthorized access to its components or data.
D. The ability to identify states, outputs, intermediate result and error messages in the SUT

**Answer:** D

**NEW QUESTION 4**
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 5**
You are testing a major enhancement to an air traffic control user interface. You have use of a sophisticated pre-production test environment, created specifically for large scale automated regression, performance and security testing. The window for regression testing is limited and must successfully conclude, with no major regressions remaining, before the non-functional testing starts.
You have been using the same version of the TAS for the last few releases, each time completing the automated regression test suite in a single overnight run. However, due to the latest enhancements for the SUT, you believe there is a risk that the test suite may no longer complete overnight and therefore delay performance and security testing.
Which option would be the BEST and MOST cost-efficient approach to mitigate this risk?

A. Create a mirror of the pre-production test environment and split the regression test suite to run in parallel across the environments.
B. Split the regression test suite into multiple parts, running in the environment across consecutive nights.
C. Analyse the regression test suite and remove test coverage duplication and redundancy.
D. Introduce better coding practices for the automation scripts, including coding guidelines, reviews and improved static analysis.

**Answer:** A

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

**NEW QUESTION 6**
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 modify addressed 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 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**
When the SUT provides insight into the behaviour of the system, providing the users the with the status of the various actions performed so that they can check that expected behaviour equals actual behaviour, what is this called?

A. Portability.
B. Maintainability.
C. Observability.
D. Controllability.

**Answer:** C

**Explanation:**
Reference: https://www.toptal.com/designers/ux-consultants/how-to-conduct-usability- testing-in-6-steps

**NEW QUESTION 9**
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 10**
You are working as a TAE for a company who are re-designing their website. The new website provides information for customers and there are two minor features being developed:
1) Request a newsletter
2) Ability to contact the organisation with a question or comment
The website must be ??mobile friendly" and available on all major web browsers.
You have been tasked to provide an automated solution for web browsers only and to concentrate on the two minor features.
What would be a KEY challenge with automation in this context?

A. A low level of intrusion is likely from use of existing UI elements, but depending on the solution this might be more complex than a higher level of intrusion.
B. Because there is a high level of intrusion there may be many false alarms.
C. Automation might not be possible on the mobile devices.
D. The benefits of automation might not be achieved for many years due to the complexities of the SUT and automation solution.

**Answer:** D

**Explanation:**
Reference: https://www.britannica.com/technology/automation/Advantages-and-disadvantages-of-automation

**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 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 16**
Which of the following is considered a disadvantage of test automation?

A. Automated exploratory testing is difficult to implement
B. Test automation can be a distraction from the objective of finding bugs
C. Tests are more likely to have operator errors.
D. Slower feedback on the quality of the system.

**Answer:** D

**Explanation:**
Reference: https://blog.qasource.com/resources/are-there-any-disadvantages-of-automation-testing-in-quality-assurance

**NEW QUESTION 21**
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 23**
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 24**
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 25**
Your project is transitioning from manual to automated testing. You have decided to implement a pilot project so that lessons learned can inform future time estimates and schedules.
Which two of the following represent the types of test cases that are MOST suited to a test automation pilot project?

a) High added value test cases that require little effort to automate.
b) Test that are run infrequently as these will be simpler to automate
c) Reliability test cases that can show added value soon
d) Technically challenging test cases to provide the best validation of manual test conversion
e) Tests that are least Important to the business as these are safer to trial

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

**Answer:** B

**Explanation:**
Reference: https://www.perfecto.io/blog/types-of-test-cases-to-automate

**NEW QUESTION 27**
You are working as a TAE for a company who have been using a web test execution tool for a number of years. The tool has been used successfully on ten web applications in the past.
The company are developing a new web application which has a friendly User Interface, but the developers have used an object throughout the application which the tool is unable to recognise. As a result, you have no way of capturing the object or verifying the contents using the automation tool.
What is the first thing you should do about this problem?

A. See if the application can be run on a desktop and if the object can be recognised on the desktop by the tool.
B. Investigate whether the object can be recognised by other test execution tools in the market
C. Ask the developers to remove the object and replace it with some text fields
D. Ask the developers if they can change the object to something that can be recognised by the tool

**Answer:** B

**Explanation:**
Reference: https://www.softwaretestinghelp.com/web-application-testing/

**NEW QUESTION 30**
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 34**
You are working on a government system called ??Making Tax Digital" or MTD for short. This system is being implemented to stop manual human input error and also to reduce fraudulent behaviour from companies when submitting their tax and VAT returns.
The key concept is that registered companies will need to use government recommended 3rd party software for their accounts and book keeping. These 3rd party applications will have a direct interface into the government's main system for transactions and submissions.
You have been using a test execution tool successfully on the project so far. and have implemented a basic ??capture/replay?? approach to scripting.
The management have been encouraged with the automation so far, but want the following objectives to be met:
* Test cases added easily
* Reduction in the amount of scripts and script duplication
* Reduction in maintenance costs
Which scripting technique would be MOST suitable in this scenario in order to meet the objectives?

A. Linear scripting
B. Structured scripting
C. Data-driven scripting
D. Keyword-driven scripting

**Answer:** D

**Explanation:**
Reference: https://www.guru99.com/keyword-driven-testing.html

**NEW QUESTION 35**
As the TAE, you are working with the organisation's Test Manager to decide which external metrics and which internal metrics should be gathered for the new TAS.
Which of the following represents the BEST internal metric that would help measure the quality of the TAS and the number of problems associated with the TAS?

A. The average maintenance cost to keep an automated test in sync with the SUT
B. The number of hours of manual test effort saved by implementing a TAS
C. A measure of defect density within the TAS automation code

D. A measure of how many automated tests pass and fail

**Answer:** C

**NEW QUESTION 36**
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 40**
You are a TAE working for a software house which provides quarterly releases of its software to its customers. There are many different versions of the SUT that need to be tested simultaneously by different tests teams.
Your TAS is complex and you need to ensure it remains consistent across the different SUT environments. What is the BEST and MOST efficient way to ensure each of the test teams use the same version of the TAS to test the different versions of the SUT?

A. Due to the complexities involved and the high risks associated with these releases, it would be best to revert to manual testing.
B. Produce comprehensive documentation of the TAS, installation and usage guidelines and provide training for each team member.
C. Install the TAS is a central repository and have an automated installation and configuration of the TAS from this repository to each of the SUT environments.
D. Develop a tool to track historical test results across the different SUT environments and look for trends.

**Answer:** C

**NEW QUESTION 41**
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 42**
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 47**
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 52**
You are planning the pilot for an in-house developed Test Automation solution (TAS).
Which two of the following would be important steps to take as part of the planning process?

a) Review your organisation's current projects and identify which one would be most suitable to pilot the TAS.
b) Ensure that the developers will provide the necessary commitment for the TAS deployment activities.
c) Run a series of training workshops for new users of the TAS before they are asked to use it.
d) Develop a project plan for the pilot and reserve the necessary budget and resources for its implementation.
e) Ask the developers to provide any missing functionality during the deployment activities.

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

**Answer:** B

**NEW QUESTION 55**
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 57**
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 58**
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 60**
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