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
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 3
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 4
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 5
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 6
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 7
Which of the following is NOT a technical design consideration for a TAA?

A. The number of users for the SUT
B. Availability of interfaces for the SUT to be testable
C. Standards and Legal requirements, e.g data privacy
D. Data used by the SUT, e.g configuration, users

Answer: A

NEW QUESTION 8
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 9
A major component of your organisation's Test Automaton Solution (TAS) is a popular open-source third-party capture-replay tool for automated functional testing.
Which two of the following must the Test Automation Engineer (TAE) ensure happens for this TAS?
a) The third party tool is placed under configuration management control.
b) The annual support and maintenance costs are agreed with the tool's vendor.
c) It is Important to obtain information about updates and new versions of the tool so that the third party tool is kept up to date.
d) Ensure that the TAS test scripts are integrated into the tool's framework.
e) Ensure that no changes are made to the tool, because modifications are not allowed for third party products.

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

Answer: A

NEW QUESTION 10
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 same version 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?
A) The configuration of the TAS uses automated installation scripts
B) 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. A and e
B. B and c
C. B and d
D. A and d

Answer: A

NEW QUESTION 10
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 15
You are implementing test automation for a project and you want to be able to generate test cases automatically using a series of test design tools which use a variety of test design techniques such as decision tables, pairwise testing and boundary value analysis.
You also want to generate test data automatically which can then be used by the tests. Initially these tests will be run manually to verify their correctness and ultimately you want
to include them in the test execution tool so that they can run unattended.
Which layer of the gTAA will be used to support the specification of the test cases and preparation of the test data?

A. The generation layer
B. The definition layer
C. The execution layer
D. The adaptation layer

Answer: B

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

NEW QUESTION 18
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 21
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 25
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 29
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 30
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 tests at both Component and System Leve
B. Only do this automation once every interface has been fully developed or amended and manual testing has completed successfully.
C. Automate tests at one level only, System leve
D. Use only the newly developed interfaces and do not create any customized interfaces/test hooks.
E. Automate the tests at two levels, Component and System leve
F. Create customized hooks at Component level for interface not yet developed or amende
G. Only use the newly developed or amended interfaces to test at System level.
H. 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.

Answer: A

NEW QUESTION 31
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 35
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 40
If you are tracking the frequency that a test automation code reports a defect that is not really a defect, what metric are you gathering?

A. Tool scripting metrics
B. Automation code defect density
C. Trend metrics
D. The number of false-fail results

Answer: D

Explanation:
Reference: https://www.sealights.io/regression-testing/11-test-automation-metrics-and- their-pros-cons/

NEW QUESTION 44
Which of the following success factors for a test automation project is TRUE?

A. Automated tests must be designed to capture only the data that is strictly needed for comparing expected and actual results
B. The test cases to be automated first must always be selected based on the number of times a test will need to be run
C. The test cases to be automated must have a high dependency on particular data values
D. Automated tests that fail due to changes in the requirements of the SUT should be promptly fixed rather than disabled from the test suite

Answer: D

NEW QUESTION 48
What represents good practice when automating a manual regression test suite?

A. Test data shared between tests should, where feasible, be stored and accessed from a single source to avoid duplication or introduction of error.
B. All existing manual tests should be decomposed into several smaller automated tests to reduce functional overlap.
C. Remove inter-dependencies between tests to reduce automation failures and costly error analysis.
D. Once a manual test has been automated, execute it immediately to Identify whether it operates correctly.

Answer: D

Explanation:
Reference: https://www.softwaretestinghelp.com/manual-to-automation-testing-process- challenges/

NEW QUESTION 52
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 writing the 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

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

Answer: C

NEW QUESTION 55
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 56
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 58
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 62
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 64
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 69
When if the BEST time for automation to consider legal and/or standard requirements for a SUT?

A. When implementing the SUT
B. When designing a TAF
C. When designing a TAA
D. When developing a TAS

Answer: A

Explanation:
Reference: https://www.globalapptesting.com/blog/when-should-you-automate-your- software-testing

NEW QUESTION 73
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 74
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 75

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