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 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
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 4
Your company is new to test automation and as TAE. you have designed a TAS which successfully supports the SUT for the current project.
There are other systems currently in operation which have been tested manually and more systems are planned over the coming years. Based on this success, your company requires test automation be rolled out to other current and future SUTs with consistency being a key objective.
Which of the following is the BEST way to achieve that?

A. Design a new TAS for each SUT, and manage each one through a dedicated automation support team.
B. Install the current TAS into a central repository so that other tests on different SUTs use the same version of the TAS.
C. Check for correct connectivity to internal and external systems to ensure that the TAS has been installed and configured correctly for each SUT.
D. Develop a tool that keeps track of automation failures across the different SUTs and produces regular reports to stakeholders.

Answer: B

NEW QUESTION 5
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 6
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 7
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 8
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 9
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 10
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 10
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 13
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 14
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 19
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 20
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 24
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 26
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