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Question 1

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?

Options:

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:

A

Question 2

Which of the following statement about the implementation of automated regression testing is FALSE?

Options:

A- When automating regression tests, the structure of automated tests must always be the same as the corresponding manual tests

B- When automating regression tests, the corresponding manual tests should have already been executed to verify they operate correctly

C- When automating regression tests, the initialization steps set the test preconditions should be automated wherever possible

D- When automating regression tests, consideration should be given to how much time would be saved by automation

Answer:

B

Question 3

Question Type: **MultipleChoice**

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:

D

Question 4

Question Type: **MultipleChoice**

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 the system (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?

Options:

A- Maturity of the test process

B- Complexity to automate

C- Frequency of use

D- Sustainability of the automated environment

Answer:

D

Question 5

Question Type: MultipleChoice

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

Question 6

Question Type: MultipleChoice

Which of the following metrics could suggest, under certain condition that an automated regression test suite has NOT been updated for new functionalities added to the SUT?

Options:

A- The ratio of comments to executable statements in the SUT code.

B- The SUT code coverage provided by the execution of the regression test suite.

C- The defect density in the automation code of the regression test suite.

D- The ratio of commands to executable statements in the automation code of the regression test suite

Answer:

C

Question 7

Question Type: MultipleChoice

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?

Options:

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:

A

Question 8

Question Type: MultipleChoice

Which of the following statements does NOT describe good practice for maintaining the TAS?

Options:

A- The TAS must run in the development environment because development and programming knowledge are required for its maintainability

B- The TAS must be under configuration management, along with the test suite, the testware artefacts and the test environment in which it runs

C- The TAS must separate the test scripts from the environment in which it runs and from the associated harnesses and artefacts

D- The TAS must consist of components that can be easily replaced without affecting the overall behavior of the TAS itself

Answer:

A

Question 9

Question Type: **MultipleChoice**

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?

Options:

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

Question 10

Question Type: **MultipleChoice**

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?

Options:

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

Question 11

Question Type: MultipleChoice

You identified a suitable project to pilot an automation tool and planned and conduced a pilot. The pilot has been successful and tool Is being deployed within your organization, with a plan to increase tool use by the one project at a time. During this rollout some test processes will be changed slightly to gain additional benefits from using the tool.

In the pilot project, a small set of manual tests were automated for the first time. You are currently monitoring the test automation efficiency and this reveals that the automation regime for the tests is not yet mature.

Which of the following statements is TRUE?

Options:

A- The approach used for deployed this tool is aligned to the standard success factor for deployment

B- The pilot project should have been critical so that maximum benefits were delivered

C- The target defined for the project was inappropriate, because the automation regime for the automated tests at the end of the pilot is not yet mature.

D- The test process should be radically changed to gain additional benefits from using the tool.

Answer:

D