Question 1

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?

Options:

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

Question 2

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:

B

Question 3

Question Type: **MultipleChoice**

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:

D

Question 4

Question Type: MultipleChoice

What is NOT a factor in considering when you are asked to ensure an effective transition from manual to automated tests?

Options:

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

Question 5

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?

A- Maturity of the test process

B- Complexity to automate

C- Frequency of use

D- Sustainability of the automated environment

Answer:

D

Question 6

Question Type: **MultipleChoice**

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?

Options:

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

Question 7

Question Type: MultipleChoice

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?

Options:

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 automatically update 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

Question 8

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?

Options:

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 9

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:

B

Question 10

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:

D

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