Free Questions for CT-TAE

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Question 1

Question Type: MultipleChoice

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?

Options:

A- The test Generation layer
B- The Test Definition layer
C- The Test Adaption layer
D- The Test Execution layer

Answer:

C

Question 2

Question Type: MultipleChoice

You are implementing test automation for a project that has a business critical application A test execution tool is being used to run automated regression tests. The results from the test execution tool are very important and need to be 100% accurate.

You want to merge the test automation results with the test management system that also records the manual test results so that managers can make informed decisions about the progress quickly.

Which layer of the gTAA will be used to ensure the proper reporting occurs and the interfaces to the test management system are handled?

Options:

A- The reporting layer
B- The logging layer
C- The execution layer
D- The adaptation layer

Answer:

A

Question 3

Question Type: MultipleChoice

Assume that you are the TAE responsible for the correct functioning of a TAS, deployed in a test environment that consists of a few machines running the same version of the operating system. The TAS has been working and stable since its deployment, it has been used to run an automated test suite consisting of many similar automated test. The infrastructure team is planning to update the operating system on these machines by installing a new the service pack for security reasons. Since the vendor of the operating system assurance full backward compatibility, the infrastructure team assurance that there will be no impacts on the functioning of the TAS.

What is the BEST approach to confirm the correct functioning of the TAS in this scenario?

Options:

A- Verify the behavior of the automated tests by running a small tests, then gradually run the remaining tests to confirm the correct functioning of the whole automated test suite.
B- Make sure that the infrastructure team has completed installing the service pack on the machines where SUT is running, then run the whole automated test suite to verify its behavior
C- Verify the behavior of the whole automated test suite by running all the automated tests
D- Do not run any tests because you can immediately confirm the correct functioning of the automated test suite

Answer:

A

Question 4

Question Type: MultipleChoice

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?

Options:

A- Data-driven scripting
B- Keyword-driven scripting
C- Linear scripting
D- Structure scripting

Answer:

D

Question 5

Question Type: MultipleChoice

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?

Options:

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

Question 6

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 7

Question Type: MultipleChoice

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?

Options:

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

Question 8

Question Type: MultipleChoice

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?

Options:

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