Vendor:BCS

Exam Code:ISTQB-TAE

Exam Name:ISTQB Certified Tester Advanced Level-Test Automation Engineering

Version: Demo

QUESTION 1

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

Correct Answer: D

QUESTION 2

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 scripts. The automated test cases would need to be run manually with a code coverage and reporting tool running in the background.

B. The automated testware would record overall code coverage for each run and add the figure to a new row in a pre-formatted Excel spreadsheet. You would then present the spreadsheet to stakeholders so they could look for changes in coverage.

C. 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.

D. 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.

Correct Answer: C

QUESTION 3

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

Correct Answer: A

QUESTION 4

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.

Correct Answer: D

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

QUESTION 5

New features have been added for the current release of a SUT.

Which action would NOT be appropriate for the TAE to perform when evaluating the impact on the TAS?

A. Gather feedback from the Business Analysts to determine if the current TAS will meet the needs of the new features.

B. Review existing keywords to see if they need to be modified.

C. Run existing automated tests against the updated SUT to verify and record any changes to their correct operation.

D. Evaluate compatibility with existing test tools and, where necessary, identify alternative solutions.

Correct Answer: A

QUESTION 6

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

Correct Answer: C

QUESTION 7

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?

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.

Correct Answer: A

QUESTION 8

You are reviewing the testability of your SUT.

Which of the following BEST refers to the characteristic of OBSERVABILITY?

A. The ability of the SUT to perform its intended function for a specified period of time

B. The ability to exercise the SUT by entering inputs, triggering events and invoking methods

C. The ability of the SUT to prevent unauthorized access to its components or data.

D. The ability to identify states, outputs, intermediate result and error messages in the SUT

Correct Answer: D

QUESTION 9

What are the four horizontal layers of the gTAA?

A. Test adaptation, test execution, test design, test definition

B. Test generation, test execution, test definition, test APIs

C. Test generation, test definition, test execution, test adaptation

D. Test definition, test execution, test reporting, test adaptation

Correct Answer: C

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

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QUESTION 10

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

Correct Answer: B

QUESTION 11

You have inherited a TAS that is working well it uses keyword-driven scripting and was well architected. The automation architect who built the system has now moved on to another company. The TAS is working across several projects and has a multiple library of keywords, categorised by project. The individual project teams maintain these keyword scripts.

Based only on the given information, what is the MOST significant risk for the TAS?

A. The keyword driven scripts may become out of date if not maintained

B. The level of abstraction, coupled with the departure of the architect may make the system hard to maintain

C. New projects may not work as well with the TAS as the current projects

D. Because the keyword scripts are maintained by different teams, there is a likelihood that good coding standards are not followed

Correct Answer: B

QUESTION 12

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

Correct Answer: C