ISTQB CT-TAE Practice Questions

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Question 1

Question Type: MultipleChoice

You have been asked to implement test automation for a project that is not meeting its deadlines. After further analysis you discover that the manual testers are not able to keep up with the new feature testing because the regression testing is taking 75% of their time. As a result, the new features are being released with many defects and customers are complaining about the quality.

Given this information, what metric SHOULD you be tracking to show the value of test automation for this project?

Options:

A- Percentage of code covered by the test automation.
B- Equivalent Manual Test Effort for the automated tests.
C- Number of defects found by test automation.
D- Percentage of builds accepted/rejected by the automated tests.

Answer:

B

Question 2

Question Type: MultipleChoice

You are working as a TAE for a company who are re-designing their website. The new website provides information for customers and there are two minor features being developed:

1) Request a newsletter

2) Ability to contact the organisation with a question or comment

The website must be ''mobile friendly" and available on all major web browsers.

You have been tasked to provide an automated solution for web browsers only and to concentrate on the two minor features.

What would be a KEY challenge with automation in this context?

Options:

A- A low level of intrusion is likely from use of existing UI elements, but depending on the solution this might be more complex than a higher level of intrusion.
B- Because there is a high level of intrusion there may be many false alarms.
C- Automation might not be possible on the mobile devices.
D- The benefits of automation might not be achieved for many years due to the complexities of the SUT and automation solution.

Answer:

D

Question 3

Question Type: MultipleChoice

Which of the following is considered a disadvantage of test automation?

Options:

A- Automated exploratory testing is difficult to implement
B- Test automation can be a distraction from the objective of finding bugs
C- Tests are more likely to have operator errors.
D- Slower feedback on the quality of the system.

Answer:

D

Question 4

Question Type: MultipleChoice

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?

Options:

A- Automate tests at both Component and System Level. Only do this automation once every interface has been fully developed or amended and manual testing has completed successfully.
B- Automate tests at one level only, System level. Use only the newly developed interfaces and do not create any customized interfaces/test hooks.
C- Automate the tests at two levels, Component and System level. Create customized hooks at Component level for interface not yet developed or amended. Only use the newly developed or amended interfaces to test at System level.
D- 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

Question 5

Question Type: MultipleChoice

Designing the System Under Test (SUT) for testability is important for a good test automation approach and can also benefit manual test execution.

Which of the following is NOT a consideration when designing for testability?

Options:

A- Observability: The SUT needs to provide interface that give insight into the system.
B- Re-useability: The code written for the SUT must be re-useable for other similar system.
C- Clearly defined architecture: The SUT Architecture needs to provide clear and understandable interfaces giving control and visibility on all test levels.
D- Control: the SUT needs to provide interfaces that can be used to perform actions on SUT.

Answer:

B

Question 6

Question Type: MultipleChoice

You are a TAE working for a software house which provides quarterly releases of its software to its customers. There are many different versions of the SUT that need to be tested simultaneously by different tests teams.

Your TAS is complex and you need to ensure it remains consistent across the different SUT environments. What is the BEST and MOST efficient way to ensure each of the test teams use the same version of the TAS to test the different versions of the SUT?

Options:

A- Due to the complexities involved and the high risks associated with these releases, it would be best to revert to manual testing.
B- Produce comprehensive documentation of the TAS, installation and usage guidelines and provide training for each team member.
C- Install the TAS is a central repository and have an automated installation and configuration of the TAS from this repository to each of the SUT environments.
D- Develop a tool to track historical test results across the different SUT environments and look for trends.

Answer:

C

Question 7

Question Type: MultipleChoice

Your organisation has successfully implemented a Test Automaton Solution (TAS) for a new project which has since been delivered into production via a number of sprints. A series of maintenance releases are now planned.

Some improvements were made to the Test Automation Architecture (TAA) as a result of feedback from the early sprints. The TAA improvements affected the TA, and the TAS was changed for the final sprint.

The new version of the TAS was generally well received but some performance and usability issues were encountered with the TAS which have yet to be addressed.

The test automation engineers supporting the maintenance releases must decide whether to use the enhanced TAS or the version that was used successfully for previous sprints.

What is the BEST action to take next?

Options:

A- Perform an analysis of risks versus benefits for the enhanced TAS and then decide which version to use.
B- Use the previous version because this was proven to work. It will be too risky to use the new version, with unresolved issues, for a live system.

C- Use the new version because, despite some issues, it works, and the live system should not be tested using a different TAS.
D- Use the new version of the TAS for the first maintenance release on a trial basis. If issues are encountered, switch to the previous version for later releases until the issues are resolved.

Answer:

D

Question 8

Question Type: MultipleChoice

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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?

Options:

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

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