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ISTQB CT-TAS

Certified Tester Test Automation Strategy (CT-TAS)

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Question: 1

Your company has a mature, disciplined approach to test automation. Teams have implemented test automation on all test levels defined in the organization: UI, API, integration, and component. However, the build pipeline in some of the teams takes a long time to execute all the steps. As the head of test automation architecture (TAA), you are responsible for finding a solution that will help each team.

Which of the following should you NOT consider when providing your recommendations?

Response:

- A. Reduce the scope of UI test automation to a smoke test suite
- B. Execute the full regression test suite separately from the build pipeline
- C. Perform boundary value analysis manually
- D. Replace the existing test automation tool

Answer: D

Question: 2

What factors should be considered from a quality assurance perspective to provide a smooth and easy transition from manual tests to automated ones?

Response:

- A. Test tool licenses
- B. Component testing coverage
- C. Coverage
- D. Availability of the CI/CD System

Answer: C

Question: 3

Identify which option contains all correct major infrastructure components of test automation:

Response:

- A. Network, interface with the SUT, host machines
- B. Platform, network, code
- C. Host machines, platform, proxy
- D. Code, host machines, network

Answer: A

Question: 4

You have recently taken over the leadership of a test team that is responsible for the end-to-end validation of UI testing of a retail store. The team consists of one manual tester and one TAE. There have been constant complaints about testing, primarily highlighting both manual and test automation being time-consuming.

There is no opportunity to add more TAEs to the group. The TAF is currently not integrated into the CI/CD pipeline, and there has not been an ROI calculation performed yet. For that, the time numbers are provided in minutes below. Test execution is based on each sprint.

1. Time to run a test case manually
 2. Number of automated test scripts implemented
 3. Average maintenance time of an automated test script
 4. Number of test cases
 5. Average time to develop automated test scripts
 6. Time to run an automated test case
- Which two options cover the inputs for a Return on Investment calculation?
(Choose Two)

Response:

- A. 1,2,5,6
- B. 2,3,5
- C. 4,5,6
- D. 1,4,6

Answer: B,D

Question: 5

You join a product development team as a new hire and as the only TAE. While developing the automated test cases, you see that some of your test cases are unreliable, not repeatedly providing the same test results due to changing test data.

a. It turns out that other testers are using some of the same testware as your TAS.

Which of the following organizational considerations did you miss to identify before starting the TAS development work?

Response:

- A. Policies and practices for software development
- B. Existing active test automation projects and their status
- C. Test tools and licenses
- D. Availability of separate test data and test environments

Answer: D

Question: 6

What cost factor should NOT influence your decision about a test automation implementation strategy and a TAS to be used?

Response:

- A. Hardware and licenses
- B. Time constraints
- C. Number of TASs
- D. Maintenance

Answer: D

Question: 7

You join a company as a Quality Architect. Your first assignment is evaluating the TAS of a small subdepartment of the IT department. This group is focused on payment solutions. Currently, the TAS is only capable of checking the API's status and ability to connect to services. Which of the following quality characteristics should you evaluate first?

Response:

- A. Portability
- B. Reliability
- C. Maintainability
- D. Functional completeness

Answer: D

Question: 8

What CI/CD process is leveraged to include an additional step for automated UI tests within the application build process?

Response:

- A. Build orchestration tool
- B. Pipelines
- C. Test harness
- D. Code repository

Answer: B

Question: 9

Which of the following statements describes an important technical success factor for any major test automation project?

Response:

- A. The test automation strategy must ensure that different areas of the SUT can be tested in the same way
- B. In automated GUI testing, test data and interaction controls should be very tightly coupled to the GUI layout
- C. Ensure that automated test scripts can be isolated and retired easily when they are no longer useful or necessary in a current test execution
- D. The test automation project must support the automation of all manual tests for the test automation to achieve long-term value

Answer: C

Question: 10

As a test leader, you are to take on a project with legacy software. What are TWO important aspects for your test automation project?

(Choose two)

Response:

- A. Convert the architecture of the legacy software to a microservices architecture before writing new tests, to keep the tests compact and efficient.
- B. Rewrite all tests first. Legacy software TAs tend to be outdated, underperforming, and should not be used again
- C. Increase the coverage at the system integration test level to detect possible errors early
- D. Focus on system testing. There is no point in writing new component tests for legacy software
- E. Introduce more meaningful component tests to expand the possibilities of code refactoring

Answer: C,E



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