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To be eligible for the CTAL-TAE certification exam, candidates must have already achieved the ISTQB Certified Tester Foundation Level (CTFL) certification and have completed the ISTQB Certified Tester Advanced Level, Test Analyst (CTAL-TA) certification. The CTAL-TAE exam consists of 40 multiple-choice questions and candidates have 90 minutes to complete the exam. A passing score of 65% is required to earn the CTAL-TAE Certification. ISTQB Certified Tester Advanced Level, Test Automation

Engineering certification is valid for five years and can be renewed by retaking the exam or by obtaining an ISTQB Agile Tester Extension certification.

ISQI ISTQB Certified Tester Advanced Level, Test Automation Engineering Sample Questions (Q65-Q70):

NEW QUESTION # 65

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?

- A. The time it takes to execute all 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 number of automated tests requiring maintenance, for each new release of the SUT.
- D. The code coverage achieved with the automated tests, for each new release of the SUT

Answer: B

NEW QUESTION # 66

A CI/CD pipeline consists of two phases: build and deployment. The build phase, among other activities, runs automated test cases at the following test levels: Component Testing (CT) and Component Integration Testing (CIT). If the build phase is successful, the deployment phase is started. The deployment phase first provisions the test environment infrastructure needed to deploy the SUT, then deploys the SUT to this environment, and finally triggers another separate pipeline that runs automated test cases at the following test levels: System Testing (ST) and Acceptance Testing (AT). Which of the following statements is TRUE?

- A. Neither automated test cases for CT-CIT nor automated test cases for ST-AT can act as quality gates
- **B. Both automated test cases for CT-CIT and ST-AT can act as quality gates**
- C. Automated test cases for CT-CIT can act as quality gates, while automated test cases for ST-AT cannot act as quality gates
- D. Automated test cases for CT-CIT cannot act as quality gates, while automated test cases for ST-AT can act as quality gates

Answer: B

Explanation:

TAE describes quality gates as defined checkpoints in pipelines where objective criteria determine whether the pipeline may proceed (e.g., thresholds, pass/fail rules, coverage, or risk-based acceptance). Automated tests at multiple levels can serve as such gates. In the build phase, CT and CIT are commonly used as strong, fast quality gates because they provide quick feedback on code correctness and integration of closely related components; failures typically block promotion. In the deployment phase, after provisioning and deploying into a test environment, automated System Testing and Acceptance Testing can also serve as quality gates for promoting a build to later stages or release candidates, especially when the organization relies on automated regression and automated acceptance criteria for release decisions. While ST/AT may take longer and may be more prone to environmental factors, TAE still supports using them as gates when they are sufficiently stable, relevant, and aligned with release risk. The scenario explicitly places ST/AT in a separate triggered pipeline, which still qualifies as a gating mechanism if downstream promotion depends on its outcome. Therefore, both CT-CIT and ST-AT can act as quality gates.

NEW QUESTION # 67

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?

- A. Linear scripting
- B. Keyword-driven scripting
- C. Data-driven scripting

- D. Structure scripting

Answer: D

NEW QUESTION # 68

In a first possible implementation, the automated test scripts within a suite locate and interact with elements of a web UI indirectly through the browsers using browser-specific drivers and APIs, provided by an automated test tool used as part of the TAS. In an alternative implementation, these test scripts locate and interact with elements of the same web UI directly at the HTML level by accessing the DOM (Document Object Model) and internal JavaScript code. The first possible implementation:

- A. Has a lower level of intrusion than the alternative implementation, and therefore its test scripts are less likely to produce false positives
- B. Has a higher level of intrusion than the alternative implementation, and therefore its test scripts are less likely to produce false positives
- C. Has the same level of intrusion as the alternative implementation, and therefore the risk of test scripts producing false positives is the same in both cases
- D. Has a lower level of intrusion than the alternative implementation, and therefore its test scripts are more likely to produce false positives

Answer: A

Explanation:

TAE describes "intrusiveness" as the degree to which automation reaches into internal implementation details of the SUT rather than interacting through externally visible, user-realistic interfaces. Using browser drivers and browser automation APIs exercises the UI similarly to a real user (via the browser's supported automation hooks), which is generally less intrusive than directly manipulating the DOM and internal JavaScript. Direct DOM/JS access can bypass real user interaction pathways, skip browser event chains, and depend on internal structures that are not part of the stable external contract. This increases the risk of false positives: tests may "pass" by forcing UI states or reading internal values even when the application would not behave correctly for real users. Less intrusive automation (through browser-level drivers) tends to provide higher confidence that observed behavior reflects real user experience, reducing the chance that tests succeed while user-visible behavior is broken. TAE therefore associates lower intrusion with stronger validity of results and lower false-positive risk, especially for system/UI-level validation. While browser-driven automation can still be flaky for other reasons (timing, environment), in the specific comparison of interaction method, browser-driver-based execution is the less intrusive option and is less likely to create false positives than direct internal DOM/JS manipulation.

NEW QUESTION # 69

Which of the following statements does NOT describe good practice for maintaining the TAS?

- A. The TAS must separate the test scripts from the environment in which it runs and from the associated harnesses and artefacts
- 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 consist of components that can be easily replaced without affecting the overall behavior of the TAS itself
- D. The TAS must run in the development environment because development and programming knowledge are required for its maintainability

Answer: D

NEW QUESTION # 70

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