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## CTAL-TAE Exam Study Guide - CTAL-TAE Test Book

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## ISQI ISTQB Certified Tester Advanced Level, Test Automation Engineering Sample Questions (Q16-Q21):

### NEW QUESTION # 16

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

## Answer: A

### 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 # 17

You are currently conducting a Proof of Concept (PoC) aimed at selecting a tool that will be used for the development of a TAS. This TAS will exclusively be used by one team within your organization to implement automated UI-level test scripts for two web apps. The two tools selected for the PoC use JavaScript

/TypeScript to implement the automated test scripts and offer capture and playback capabilities. Three test cases for each of the two web apps were selected to be automated during the PoC. The PoC will compare these two tools in terms of their effectiveness in recognizing and interacting with UI widgets exercised by the test cases, to quickly determine whether test automation is possible and which tool is better. Which of the following TAFs is BEST suited for conducting the PoC?

- A. A one-layer TAF (test scripts)
- B. A layered TAF with more than three layers
- C. A three-layer TAF (test scripts, business logic, core libraries)
- D. A two-layer TAF (test scripts, test libraries)

## Answer: A

### Explanation:

For a PoC whose primary goal is rapid feasibility assessment and tool comparison (especially around object recognition and interaction), TAE recommends minimizing framework complexity and upfront engineering.

In a PoC, you want the shortest path to executing representative tests so you can observe tool behavior, stability, locator robustness, synchronization support, and ease of driving the UI widgets in scope. A one-layer approach—simple test scripts with minimal abstraction—reduces the time spent building reusable libraries, enforcing architecture, or creating business layers that are not necessary for answering the PoC question.

Multi-layer frameworks (two-layer and beyond) are more appropriate when you are establishing maintainability, reuse, and scaling for long-term automation. Those benefits matter in the full TAS implementation, but they can distort PoC outcomes by introducing additional design decisions, patterns, and glue code that hide or compensate for tool limitations. Since only six test cases are being automated and the objective is to quickly determine whether UI automation is possible and which tool performs better at widget interaction, the simplest structure (one-layer TAF) is best aligned with TAE PoC guidance: rapid learning, minimal overhead, and clear attribution of outcomes to the tool rather than to framework design.

## NEW QUESTION # 18

Consider the following layers of the gTAA structure:

- a. Test generation layer
- b. Test definition layer
- c. Test execution layer
- d. Test execution layer

Consider the following capabilities associated with these layers.

Acquire all the necessary resources before each test and release all after run, in order to avoid interdependences between test. Allow the automated test scripts on an abstract level to interact with components, configurations and interfaces of the SUT.

Design test directives that allow configuring the algorithms used to automatically produce the test cases a given model of the SUT.

Allow the definition and implementation of test cases and data by means of templates and/or guidelines.

Which of the following BEST matches each layer with the appropriate capability?

- A. a-3, b-4, c-1, d-2
- B. a-3, b-4, c-2, d-1

- C. a-4, b-3, c-1, d-2
- D. a-4, b-3, c-2, d-1

**Answer: D**

#### **NEW QUESTION # 19**

Consider a SUT that small run on multiple platform during the execution of automated test runs. In each test run an automated test suite needs to be executed, with the same version of the TAF, against the sameversion of the SUT of each platform. Each platform shall have its own dedicated test environment. Your goal is to implement a process as automated as possible ( i.e with minimal manual intervention) that allows implementing a consistent setup of the TAS across the multiple test environments.

Which two of the following aspects are MOST relevant for achieving your goal in this scenario?

- \* The configuration of the TAS uses automated installation scripts
- \* The TAF saves the logs needed to debug errors in XML format

C) Features of the TAF not used by the automated tests have been tested D) All the automated test cases contain the expected results E) The TAS components are under configuration management

- A. A and e
- B. B and d
- C. A and d
- D. B and c

**Answer: A**

#### **NEW QUESTION # 20**

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 Command Line Interface (CLI) component of the test adaptation layer
- B. The test reporting component of the test execution layer.
- C. The Test execution component of the test generation layer
- D. The test execution (test engine of the test execution layer

**Answer: A**

#### **NEW QUESTION # 21**

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