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ISQI ISTQB Certified Tester Advanced Level - Test Automation Engineering CTAL-TAE (Syllabus v2.0) Sample Questions (Q38-Q43):

NEW QUESTION # 38
(Which of the following statements about how test automation is applied across different software development lifecycle models is TRUE?)

- A. In Agile software development, regardless of context (e.g., type of application to be developed, tools available), test automation must be based on the test automation distribution known as the test pyramid model
- B. In Agile software development, automated regression test suites sometimes grow so large that they can become difficult to maintain, and thus, it becomes crucial to invest in test automation at multiple test levels
- C. Unlike Agile software development, where automated unit tests are written by developers, often in a test-first fashion, in a V-model, automated unit tests are written by testers as part of unit testing
- D. In a Waterfall model, automated tests are usually executed only during the last phase of the development lifecycle, but their implementation occurs in the early stages

Answer: B

Explanation:
TAE guidance emphasizes that Agile/iterative delivery drives frequent change and frequent regression risk, which often leads teams to expand automated regression suites over time. As suites grow, they can become slower, costlier to maintain, and harder to keep stable-especially if the suite is concentrated too heavily at the UI level. For this reason, TAE stresses investing in automation across multiple test levels (unit
/component, API/service, and selected UI), aligning with principles behind balanced automation strategies (often illustrated by the "test pyramid"). This directly supports option A. Option B is not generally true: in Waterfall/V-model, testing activities (including automation design and implementation) are planned and may start early, but execution and refinement occur across phases aligned with integration and system readiness- not "usually only during the last phase." Option C is too absolute: the test pyramid is a common heuristic, but TAE does not mandate it "regardless of context"; constraints like legacy systems, risk, architecture, and tooling can change the optimal distribution. Option D is incorrect because unit testing is typically a developer responsibility in both Agile and V-model contexts; testers may support, review, or contribute but do not
"write automated unit tests" as a defining V-model rule. Therefore, A best matches documented lifecycle realities and maintenance concerns.

NEW QUESTION # 39
Which of the following statements about a test progress report produced for an automated test suite is TRUE?

- A. The test progress report should indicate, for each test in the suite, the start and end timestamps of the test
- B. The content of the test progress report should not be affected by the stakeholders to whom the report is intended
- C. The test progress report should indicate, for each test in the suite, the timestamps related to the test steps
- D. The test progress report should indicate the test environment in which the tests were performed

Answer: D

Explanation:
TAE reporting guidance emphasizes that stakeholders must be able to interpret results in context. A fundamental contextual attribute is the test environment: where the SUT was deployed, what configuration was used, and (by implication) what data and integrations were in play. Without environment identification, results can be misleading, non-reproducible, or not comparable across runs (e.g., failures caused by environment instability vs. product defects). Therefore, including the environment in the progress report is a core requirement. Option B is incorrect because TAE explicitly promotes tailoring reports to stakeholder needs; different audiences require different levels of detail, summaries, and views. Option A is generally too granular for a progress report: step-level timestamps belong more to detailed execution logs and troubleshooting artifacts, not to a progress report intended to communicate status efficiently. Option D may be included in some reports, but it is not as universally required as the environment identifier; and in TAE,
"progress report" tends to focus on overall status (what ran, what passed/failed, trends, coverage, environment) rather than per-test timing metadata. Thus, the reliably true statement is that the report should indicate the test environment.

NEW QUESTION # 40
An API's response to a request made to the corresponding endpoint should return some specific data about a payment transaction in JSON format. In particular, your goal is to write the test automation code, keeping it as short as possible, aimed at determining whether that response includes certain properties (transaction_id, amount, status, timestamp) with the data types and formats expected. Assuming that the TAF provides all the necessary support to validate the specified API response, how would you BEST achieve your goal?

- A. Write custom code that parses the actual response data and checks whether the extracted properties, data types, and formats are as expected
- B. Specify the schema for the expected response data (properties, data types, and formats) and validate the actual response data against this schema
- C. Use an artificial intelligence algorithm based on machine learning and image recognition to implement a self-healing capability
- D. Write a single assertion for each property to check whether the data types and formats for that property are as expected in the actual response

Answer: B

Explanation:
TAE encourages using the highest-leverage validation mechanisms available in the framework/tooling to keep tests concise, expressive, and maintainable. When validating JSON responses for presence of fields plus correct data types and formats, schema-based validation (e.g., JSON Schema or an equivalent contract/schema mechanism provided by the TAF) is typically the most efficient approach. It allows you to declare the expected structure once (required properties, types, constraints such as regex/date-time format, numeric ranges) and then validate the whole response in a single operation. This minimizes code and reduces repetitive assertions while producing clearer diagnostics when validation fails. Option B can work but usually results in more lines of code and repeated checks, and it is easier to miss constraints (e.g., timestamp format). Option D increases code volume and duplication by re-implementing parsing and validation logic that the TAF already provides, increasing maintenance burden. Option C is irrelevant to the goal of validating response properties
/types/formats. Therefore, specifying an expected schema and validating the response against it is the best way to keep code short and aligned with TAE maintainability recommendations.

NEW QUESTION # 41
Automated tests at the UI level for a web app adopt an asynchronous waiting mechanism that allows them to synchronize test steps with the app, so that they are executed correctly and at the right time, only when the app is ready and has processed the previous step: this is done when there are no timeouts or pending asynchronous requests. In this way, the tests automatically synchronize with the app's web pages. The same initialization tasks to set test preconditions are implemented as test steps for all tests. Regarding the pre- processing (Setup) features defined at the test suite level, the TAS provides both a Suite Setup (which runs exactly once when the suite starts) and a Test Setup (which runs at the start of each test case in the suite).
Which of the following recommendations would you provide for improving the TAS (assuming it is possible to perform all of them)?

- A. Adopt a manual synchronization with the app's web pages using dynamic waits via polling instead of the current automatic synchronization
- B. Adopt a manual synchronization with the app's web pages using hard-coded waits instead of the current automatic synchronization
- C. Implement the initialization tasks aimed at setting the preconditions of the tests within the Test Setup feature at the test suite level
- D. Implement the initialization tasks aimed at setting the preconditions of the tests within the Suite Setup feature at the test suite level

Answer: C

Explanation:
TAE strongly discourages replacing robust, app-aware synchronization with manual waits. Automatic synchronization based on application readiness signals (e.g., no pending async requests) reduces flakiness and unnecessary delays. Hard-coded waits (A) are brittle and slow; polling waits (C) can be better than fixed sleeps but are still generally inferior to event/readiness-based synchronization already in place. The improvement opportunity described is that the same initialization steps are repeated in every test as explicit test steps, which increases test script length, duplication, and maintenance effort. TAE recommends centralizing common setup logic using framework setup/teardown mechanisms to enforce consistency and reduce duplication. Since the initialization tasks are needed to set preconditions for each test (so each test starts from a known state and remains independent), they belong in the Test Setup, which runs before each test case. Putting them in Suite Setup (D) would run them only once, risking that later tests inherit polluted state, making tests interdependent and more brittle. Therefore, moving shared per-test initialization tasks into the Test Setup is the best recommendation.

NEW QUESTION # 42
You are evaluating the best approach to implement automated tests at the UI level for a web app. Specifically, your goal is to allow test analysts to write automated tests in tabular format, within files that encapsulate logical test steps related to how a user interacts

with the web UI, along with the corresponding test data. These steps must be expressed using natural language words that represent the actions performed by the user on the web UI. These files will then be interpreted and executed by a test execution tool. Which of the following approaches to test automation is BEST suited to achieve your goal?

- A. Test-driven development
- B. Keyword-driven testing
- C. Linear scripting
- D. Data-driven testing

Answer: B

Explanation:
The described goal matches the defining characteristics of keyword-driven testing: tests are expressed using keywords (action words) that represent user operations, often arranged in tabular form with parameters/test data. TAE describes keyword-driven approaches as enabling non-programmers (e.g., test analysts) to create and maintain tests by combining high-level keywords such as "Open Browser," "Click," "Enter Text,"
"Select," "Verify Text," etc., while the underlying automation framework maps those keywords to executable code. The use of files interpreted by a test execution tool is also typical: keyword tables (or similar structured specifications) are read and executed by the automation engine. Data-driven testing focuses on separating test logic from test data, typically running the same script multiple times with different datasets; it does not inherently require natural-language action words or tabular step definitions (though it can be combined).
Linear scripting is code-centric and not aligned with analyst-authored natural language step tables. TDD is unrelated to the requirement of tabular, natural-language keyword specification for UI test steps. Therefore, keyword-driven testing is the best fit for the stated approach.

NEW QUESTION # 43
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