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ISQI ISTQB Certified Tester Advanced Level - Test Automation Engineering CTAL-TAE (Syllabus v2.0) Sample Questions (Q16-Q21):

NEW QUESTION # 16

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

- **A. 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**
- B. 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
- C. 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
- D. 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

Answer: A

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 # 17

To improve the maintainability of test automation code, it is recommended to adopt design principles and design patterns that allow the code to be structured into:

- A. Loosely coupled and highly cohesive modules
- B. Highly coupled and highly cohesive modules
- C. Highly coupled and loosely cohesive modules
- D. Loosely coupled and loosely cohesive modules

Answer: A

Explanation:

TAE aligns maintainable automation with classic software design fundamentals: modules should have clear responsibilities (high cohesion) and minimal dependencies on one another (low coupling). High cohesion means each module focuses on a well-defined purpose-e.g., a page object responsible only for UI element interaction for a page, or an API client responsible only for a service boundary-making it easier to understand, test, and change. Low coupling means changes in one module are less likely to ripple across many others, which is crucial in test automation where UI locators, workflows, and environments change frequently. Patterns and principles promoted in TAE contexts (e.g., layered frameworks, encapsulation, separation of concerns, facade/page objects, adapters) are commonly used to achieve this structure. Options A and D are undesirable because low cohesion increases confusion and duplication, while high coupling increases fragility and maintenance cost. Option B (high coupling, high cohesion) still leaves the codebase vulnerable to cascading changes and tight dependencies on tools or SUT details. Therefore, the recommended structure for maintainable test automation code is loosely coupled and highly cohesive modules.

NEW QUESTION # 18

A suite of automated test cases was run multiple times on the same release of the SUT in the same test environment. Consider analyzing a test histogram that shows the distribution of test results (pass, fail, etc.) for each test case across these runs. Which of the following potential issues is MOST likely to be identified as a result of such an analysis?

- A. Unstable automated test cases
- B. Maintainability issues in automated test cases
- C. Outliers in test execution times
- D. Security vulnerabilities in automated test cases

Answer: A

Explanation:

TAE recommends monitoring test results over repeated executions to detect non-determinism and flakiness. A histogram showing pass/fail distributions per test across multiple runs in the same environment and on the same SUT version is especially useful for identifying tests whose outcomes vary without corresponding changes. If a test sometimes passes and sometimes fails under equivalent conditions, the distribution reveals instability: repeated failures for the same test, intermittent patterns, or inconsistent outcomes compared with other tests that remain stable. This is a classic indicator of flaky tests or unstable test design (e.g., synchronization issues, hidden dependencies, data leakage, timing sensitivity) and is a key maintainability /reliability concern in automation programs. While execution time outliers (A) require time-series or duration metrics rather than pass/fail distributions, a result histogram primarily focuses on outcome variability, not performance. Security vulnerabilities (B) are not identifiable from outcome distributions; they require static analysis, code review, or security testing methods. Maintainability issues (D) are generally inferred from code structure metrics (complexity, duplication), change frequency, or effort trends, not from pass/fail distributions across runs. Therefore, the most likely issue identified by analyzing such a histogram is unstable automated test

cases.

NEW QUESTION # 19

Which of the following statements about the relationship between TAA, TAS and TAF is true?

- A. A TAF can be used to implement a TAA, which is an implementation of a TAS
- **B. A TAF can be used to implement a TAS, which is an implementation of a TAA**
- C. A TAS can be used to implement a TAA, which is an implementation of a TAF
- D. A TAS can be used to implement a TAF, which is an implementation of a TAA

Answer: B

Explanation:

In TAE terminology, the Test Automation Architecture (TAA) is the conceptual, high-level blueprint that describes how automation will be structured, what layers exist, how components interact, and how the automation connects to the SUT and supporting systems. The Test Automation Solution (TAS) is the concrete realization of that architecture in a specific context-tools, infrastructure, pipelines, conventions, and components assembled to deliver automated testing capability. The Test Automation Framework (TAF) is a structured set of reusable libraries, guidelines, and mechanisms that supports efficient development, execution, reporting, and maintenance of automated tests; it is commonly a key part used to build the TAS.

TAE documents commonly present this relationship as: TAA (design) # implemented as TAS (solution) # constructed using one or more TAFs (framework elements) plus tools and environment components. Options B, C, and D invert these relationships and misrepresent the concept that architecture is implemented by a solution, not the other way around. Therefore, the statement that a TAF can be used to implement a TAS, which is an implementation of a TAA, is the correct relationship.

NEW QUESTION # 20

Which of the following recommendations can help improve the maintainability of test automation code?

- A. Use error codes in test automation code instead of exceptions (if exceptions are supported by the programming language) for error handling
- **B. Avoid producing test automation code containing methods with too many levels of nesting, as deeply nested code is more difficult to understand**
- C. Avoid using static analyzers on test automation code and other development tools, as they are designed to improve the maintainability of SUT code
- D. Avoid adopting design patterns that introduce high levels of abstraction in test automation code, such as the flow model pattern

Answer: B

Explanation:

TAE emphasizes that maintainable automation code should be readable, understandable, and easy to modify when the SUT or test intent changes. Deeply nested logic increases cognitive load, makes control flow harder to follow, and complicates debugging and refactoring-especially in automation where synchronization, retries, and error handling are common. Therefore, avoiding excessive nesting is a direct, widely applicable maintainability recommendation. Option A is generally contrary to modern maintainability guidance:

exceptions (used appropriately) typically provide clearer error propagation and richer diagnostic information than manual error codes scattered across call chains. Option C is too broad and misleading: abstraction and patterns are often recommended by TAE to manage complexity and improve maintainability (when applied appropriately); the issue is not "patterns," but misusing them or overengineering. Option D is incorrect because static analysis and developer tooling can substantially improve automation code quality by detecting issues such as dead code, complexity hotspots, duplicated code, insecure practices, and style violations. Thus, the most aligned maintainability recommendation in TAE terms is to avoid overly nested methods.

NEW QUESTION # 21

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