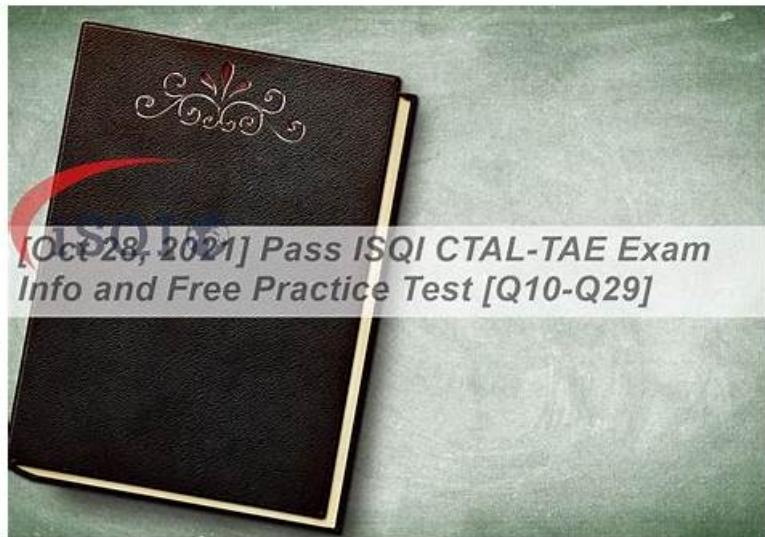


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ISQI ISTQB Certified Tester Advanced Level - Test Automation Engineering CTAL-TAE (Syllabus v2.0) Sample Questions (Q39-Q44):

NEW QUESTION # 39

Which of the following layers within the TAA contains technology-specific implementations that enable automated tests to have the execution of their logical actions result in actual interaction with the appropriate interfaces of the SUT?

- A. Test generation layer
- **B. Test adaptation layer**
- C. Test definition layer
- D. Test execution layer

Answer: B

Explanation:

TAE describes layered automation architectures where higher layers express intent and test logic, while lower layers handle concrete interaction with specific technologies and interfaces. The test adaptation layer is the layer that "adapts" abstract test actions to the real SUT interaction mechanisms. It typically contains technology-specific adapters, drivers, wrappers, or connectors (e.g., browser drivers, mobile automation bridges, API clients, message-bus connectors, database utilities) that translate logical operations like "click login," "submit order," or "query customer" into the correct low-level calls for the target interface. This is where the details of protocols, locator strategies, synchronization primitives, data access methods, and tool-specific APIs live, shielding higher layers from churn when technologies change. The test execution layer is responsible for orchestrating execution (running suites, scheduling, collecting results, reporting), but not primarily for implementing the technology-specific SUT interaction itself. The test definition layer focuses on how tests are specified (scripts, keywords, models, data), and the test generation layer concerns deriving tests (e.g., model-based generation). Therefore, the layer containing technology-specific implementations enabling actual interaction with SUT interfaces is the test adaptation layer.

NEW QUESTION # 40

Which of the following descriptions of what some test automation tools can be used to do is TRUE?

- A. Make video recordings of UI testing sessions to share with stakeholders to show the functionality and appearance of an application
- B. Analyze test results, code changes, and metrics to predict potential defects and areas of high risk within an application
- C. Autonomously design intuitive UIs and evaluate them, as well as evaluate the overall UX (User Experience) of an application
- D. Autonomously perform exploratory testing sessions based on test charters to find defects within an application

Answer: A

Explanation:

TAE recognizes a range of supporting capabilities offered by test tools beyond pure scripted execution, including reporting, evidence capture, and run artifacts that help stakeholders understand what was tested.

Video recording of UI test sessions is a common feature in several UI automation ecosystems and cloud device /browser platforms, used to provide visual evidence of steps performed, failures observed, and the application's look-and-feel during execution. This supports debugging and communication with non-technical stakeholders. Option A overstates what test automation tools do: autonomously designing intuitive UIs and evaluating UX is largely outside typical test automation tool scope and requires human-centered design methods. Option C is also overstated: exploratory testing is inherently human-driven; tools can assist (session notes, heuristics support, telemetry) but do not truly conduct exploratory testing autonomously based on charters in the general TAE framing. Option B touches on advanced analytics and AI/ML-assisted quality insights; while some platforms offer risk prediction features, the phrasing implies broad predictive defect capability, which is not a standard, dependable tool function emphasized in TAE compared with concrete capabilities like artifact capture. Therefore, the clearly true, commonly supported capability is making video recordings of UI testing sessions.

NEW QUESTION # 41

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

- A. 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
- B. 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
- 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, 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

Answer: D

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 # 42

(Which of the following answers describes the LEAST relevant concern in selecting suitable test automation tools for a test automation project?)

- A. What is the degree of technical knowledge and skills within the test team to implement code-based test automation for the project (e.g., in terms of programming and design patterns)?
- B. In the case of commercial test automation tools, what factors determine the licensing costs of these tools (e.g., in terms of the maximum number of users supported and whether the license type is fixed or floating)?
- C. In the case of open-source test automation tools, are these tools released under permissive or restrictive licenses, and, if applicable, is it specified whether they can be modified and by whom?
- D. **Has the test team been formed with the different personalities of its members in mind, to ensure that the interaction between them is effective in achieving the objectives of the test automation project?**

Answer: D

Explanation:

TAE tool selection focuses on factors that materially affect feasibility, total cost of ownership, and long-term sustainability of the Test Automation Solution (TAS): technical fit, skill fit, integration capability, licensing

/legal constraints, and cost model. Option A is directly relevant because the team's capability strongly influences whether a code-heavy tool and framework approach is realistic and maintainable. Option B is relevant because licensing constraints can affect usage rights, redistribution, modification, internal compliance, and legal risk-critical for tool adoption in many organizations. Option D is also highly relevant because commercial licensing costs and licensing models (named user vs. floating, execution limits, parallelism add-ons, feature tiers) impact budgeting and scaling, and therefore the project's viability. Option C, while important for general team effectiveness, is not a primary criterion for selecting automation tools; it does not describe tool capability, integration constraints, cost, or risk in a way that distinguishes one tool from another. TAE typically treats team collaboration/communication and roles as project and organizational concerns (e.g., governance and processes) rather than tool-selection criteria. Therefore, among the provided choices, "team personality mix" is the least relevant concern for choosing suitable test automation tools in a TAE-focused tool selection.

NEW QUESTION # 43

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. 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
- C. Use an artificial intelligence algorithm based on machine learning and image recognition to implement a self-healing capability
- D. **Specify the schema for the expected response data (properties, data types, and formats) and validate the actual response data against this schema**

Answer: D

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/format. 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 # 44

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