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ISQI ISTQB Certified Tester Advanced Level - Test Automation Engineering CTAL-TAE (Syllabus v2.0) Sample Questions (Q15-Q20):

NEW QUESTION # 15

Which of the following information in API documentation is LEAST relevant for implementing automated tests on that API?

- A. Details about the format of the API responses
- B. Authentication mechanisms required to access the API
- C. Release notes/change logs on past changes to the API
- D. Details about the parameters accepted by each API endpoint

Answer: C

Explanation:

To implement automated API tests, TAE emphasizes that testers need precise, actionable interface specifications: what endpoints exist, what inputs they accept, how to authenticate/authorize requests, and what outputs are returned (status codes, headers,

response body schemas/formats). Options B, C, and D directly support test design and implementation: parameter details enable valid/invalid request construction and boundary coverage; authentication mechanisms are required to execute any protected calls and to test auth- related behaviors; response formats enable robust assertions (including schema validation). Release notes and change logs are valuable for understanding evolution, migration, and backward compatibility considerations, but they are not typically required to implement the tests for the current API behavior when the current specification is available. They may help explain why something changed or guide test updates over time, yet they are less directly relevant to writing the core automated checks compared with endpoint inputs, auth, and response structure. Therefore, among the options, past release notes/change logs are the least relevant for implementing automated tests on the API.

NEW QUESTION # 16

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

- A. 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
- 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 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
- D. 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

Answer: C

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

As a TAE, you are evaluating a test automation tool to automate some UI tests for a web app. The automated tests will first locate the required HTML elements on the web page using their corresponding identifiers (locators), then perform actions on those elements, and finally check the presence of any expected text for an HTML element. These tests are independent of each other and are organized into a test suite that must be run every night against the most recent build of the web app. There is a high risk that the web app will crash while running some automated tests. Based only on the given information, which of the following is your MOST important concern related to the evaluation of the test automation tool?

- A. Does the test automation tool offer a feature to create a mock server that simulates the behavior of a real API by accepting requests and returning responses?
- B. Does the test automation tool offer a feature to restore the web app, recover from the failed test, skip such tests, and resume the next one in the suite?
- C. Does the test automation tool provide a feature to specify automated tests in a descriptive meta- language that is not directly executable on the web app?
- D. Does the test automation tool support a licensing scheme that allows accessing different feature sets?

Answer: B

Explanation:

Given the explicit risk that the web app may crash during execution, the highest-priority tool capability is resilience: the ability to

recover, continue, and provide usable results from unattended nightly runs. TAE emphasizes that automation must be reliable as a process, not just at the single-test level. If one crash aborts the entire suite, the organization loses feedback for many tests, reduces confidence in the pipeline, and increases triage cost. Therefore, capabilities such as automatic restart of the browser/app, test isolation, robust teardown, failure handling, skipping/marketing affected tests, and resuming execution with proper reporting are critical evaluation criteria. Option A (descriptive meta-language) can help readability or non-coder authoring but is not the most urgent need based on the scenario. Option C (mock server) is useful for isolating dependencies in some test levels, but the scenario is UI tests against the most recent build; nothing indicates an API dependency problem that drives tool selection here. Option D (licensing feature sets) affects procurement, but it does not directly mitigate the stated operational risk. Hence, recovery and continuation support is the most important concern.

NEW QUESTION # 18

Automated tests run by a TAS on a SUT can be subject to sudden bursts of messages to log during their execution. All log messages that occur during execution must be permanently stored in the corresponding test execution logs by the TAS for later analysis. If logging is not performed correctly, these bursts can reduce the execution speed of these automated tests, causing them to produce unreliable results. Which of the following solutions would you expect to be MOST useful to address this issue for TAS logging?

- A. Use a Network Time Protocol (NTP) server to ensure that the clocks of the machines running TAS and SUT are synchronized with a common time source
- **B. Log all the messages in memory using a circular buffer and periodically flush the buffer to the corresponding log files associated with the specific execution**
- C. Avoid logging the messages that occur during the specified bursts to minimize any potential performance overhead in test execution
- D. Log all the messages directly on the corresponding log files associated with the specific execution to ensure the permanent storage of test execution logs

Answer: B

Explanation:

TAE highlights that logging must balance diagnostic value with execution performance and reliability. Direct synchronous file I/O for every log message can become a bottleneck during bursts, increasing latency and perturbing the timing of the automated interactions- especially for UI or time-sensitive integration tests- leading to flaky outcomes. Since all messages must be permanently stored, dropping burst logs (option C) violates the requirement. NTP synchronization (option A) helps correlate events across systems, but it does not address the performance overhead caused by bursty logging. The most useful approach is to buffer log events in memory and flush them periodically or asynchronously to disk. A circular buffer (or similar in- memory queue) reduces immediate I/O pressure and smooths bursts, while still preserving messages for later analysis when combined with an appropriate flush strategy and sizing. This design is aligned with TAE's emphasis on making the TAS itself reliable and non-intrusive, ensuring logging supports triage without materially slowing or destabilizing test execution. Therefore, buffering in memory and periodically flushing to log files is the best solution.

NEW QUESTION # 19

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

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 # 20

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The devices mentioned in the preceding list are just a small non-representative CTAL-TAE_V2 sample showing typical limitations of mobile device screens, How exactly is such a condition carried when it is such a carrier?

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