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ISQI ISTQB Certified Tester Advanced Level - Test Automation Engineering CTAL-TAE (Syllabus v2.0) Sample Questions (Q13-Q18):

NEW QUESTION # 13

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

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

Answer: C

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 # 14

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. Log all the messages directly on the corresponding log files associated with the specific execution to ensure the permanent storage of test execution logs
- **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. 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

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 # 15

You have agreed with your organization's managers to conduct a pilot project to introduce test automation.

Managers' expectations about the benefits of automation are too optimistic. Which of the following is LEAST relevant when deciding the scope of the pilot project's objectives?

- A. Evaluate the suitability of different test automation tools based on the technology stack used by the applications for which the automated tests will be developed

- B. Evaluate the potential cost savings and benefits (e.g., faster test execution, better test coverage) of using automated testing versus manual testing
- C. Evaluate the performance of an organization's network infrastructure in terms of factors such as availability, bandwidth, latency, packet loss, and jitter
- D. Evaluate the knowledge and skills of people who will be involved in automating test cases for applicable test automation frameworks and technologies

Answer: C

Explanation:

TAE positions pilot projects as a controlled way to validate feasibility, calibrate expectations, and reduce adoption risk. Pilot objectives typically include assessing tool fit (technical compatibility, integration, reporting, maintainability), estimating realistic benefits and costs (execution speed, regression efficiency, coverage improvements, maintenance overhead), and assessing team readiness (skills, training needs, required roles). Those align directly with options A, B, and C. Network performance characteristics can matter for distributed test execution or remote environments, but evaluating enterprise network infrastructure at a deep level (availability, jitter, packet loss) is generally not a primary objective for a test automation pilot- especially when the central concern is overly optimistic expectations about automation benefits. A pilot should focus on demonstrating what can be automated, at what cost, with what stability and maintainability, and what process changes are needed. Infrastructure constraints may be observed as risks during the pilot, but a full network performance evaluation is more characteristic of IT operations or performance engineering initiatives, not a test automation introduction pilot scope. Therefore, option D is the least relevant when defining the pilot's objectives in a TAE-aligned approach.

NEW QUESTION # 16

(In User Acceptance Testing (UAT) for a new SUT, in addition to the manual tests performed by the end- users, automated tests are performed that focus on the execution of repetitive and routine test scenarios. In which of the following environments are all these tests typically performed?)

- A. Preproduction environment
- B. Build environment
- C. Integration environment
- D. Production environment

Answer: A

Explanation:

TAE distinguishes test environments by purpose and risk. User Acceptance Testing is typically performed in an environment that is as production-like as feasible (configuration, data shape, integrations) but still controlled and safe for testing activities. This is commonly referred to as preproduction (often "staging"): it supports realistic end-to-end flows, allows business users to validate that the SUT meets acceptance criteria, and enables running routine/repetitive automated checks without risking live operations. A build environment is focused on compiling/packaging and basic verification, not business acceptance. An integration environment is used to validate interactions among components/systems, but may not reflect full production- like configuration, and it's often shared and volatile-less suitable for formal acceptance activities involving end users. Production is generally avoided for UAT because acceptance testing can alter live data, disrupt users, and introduce unacceptable business risk; production testing is typically limited to tightly controlled smoke checks, monitoring, or specific "in-production" validation patterns with strong safeguards. Therefore, the environment in which both end-user manual UAT and supporting automated routine scenarios are typically executed is the preproduction environment, aligning with TAE's guidance on balancing realism with risk containment.

NEW QUESTION # 17

You have been tasked with adding the execution of build verification tests to the current CI/CD pipeline used in an Agile project. The goal of these tests is to verify the stability of daily builds and ensure that the most recent changes have not altered core functionality. Currently, the first activity performed as part of this pipeline is the static source code analysis. Which of the following stages in the pipeline would you add the execution of these smoke tests to?

- A. After deploying the new build to the test environment and before performing more extensive testing
- B. After performing static analysis on the source code and before generating the new build
- C. As a final activity, immediately before releasing the new build into production
- D. As a first activity, before performing static source code analysis and before generating the new build

Answer: A

Explanation:

Build verification tests (often called smoke tests) are intended to provide fast confirmation that a new build is deployable and that core, end-to-end functionality remains intact. TAE describes these as early, lightweight checks that run after deployment to a suitable test environment, because they need an executable, running instance of the SUT to validate system readiness. Static analysis occurs before packaging/deployment and is a quality activity on source code; smoke tests are runtime checks. Running them before generating the build (A or B) is not feasible because there is no deployed artifact to validate. Running smoke tests as the final activity right before production release (D) defeats their purpose as an early feedback mechanism and increases risk by discovering basic failures too late. The practical and TAE-aligned placement is immediately after deploying the new build into the test environment and before launching broader, longer-running regression, system, or acceptance suites. This ensures failures are detected quickly, prevents wasting time running extensive tests on an unstable build, and provides a clear quality gate for "is this build worth testing further?" Therefore, stage C is the correct insertion point for build verification tests.

NEW QUESTION # 18

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