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**Shared by Jensen on 06-06-2022**

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# Question 1

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## Question Type: MultipleChoice

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Assume that you are the TAE responsible for the correct functioning of a TAS, deployed in a test environment that consists of a few machines running the same version of the operating system. The TAS has been working and stable since its deployment, it has been used to run an automated test suite consisting of many similar automated test. The infrastructure team is planning to update the operating system on these machines by installing a new the service pack for security reasons. Since the vendor of the operating system assurance full backward compatibility, the infrastructure team assurance that there will be no impacts on the functioning of the TAS.

What is the BEST approach to confirm the correct functioning of the TAS in this scenario?

### Options:

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- A-** Verify the behavior of the automated tests by running a small tests, then gradually run the remaining tests to confirm the correct functioning of the whole automated test suite.
- B-** Make sure that the infrastructure team has completed installing the service pack on the machines where SUT is running, then run the whole automated test suite to verify its behavior
- C-** Verify the behavior of the whole automated test suite by running all the automated tests
- D-** Do not run any tests because you can immediately confirm the correct functioning of the automated test suite

### Answer:

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D

## Question 2

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**Question Type:** MultipleChoice

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Consider A TAS for testing a desktop application via its GUI. All the test cases of the automated test suite contain the same identical sequences of steps at the beginning (to create the necessary objects when doing a preliminary configuration of the test environment and at the end (to remove everything created --specifically for the test itself during the preliminary configuration of the test environment). All automated test cases use the same set of assertion functions from a shared library, for verifying the values in the GUI fields ( e.g text boxes).

What is the BEST recommendation for improving the TAS?

### Options:

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- A- Implementing keywords with higher level of granularity
- B- Improving the architecture of the application in order to improve its testability
- C- Adopting a set of standard verification methods for use by all automated tests
- D- Implementing standard setup and teardown functions at test case level

## Answer:

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A

## Question 3

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### Question Type: MultipleChoice

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Consider a TAS that uses a keyword-driven framework. The SUT is a web application and there is a large set of keywords available for writing the automated tests that relate to highly specific user actions linked directly to the GUI of the SUT. The automated test written with the keywords are statically analyzed by a custom tool which highlight's repeated instances of identical sequence of keywords. The waiting mechanism implemented by the TAS for a webpage load is based on a synchronous sampling within a given timeout. The TAS allows checking a webpage load every seconds until a timeout value

### Options:

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- A-** Changing the scripting approach to data-driven scripting
- B-** Implementing keywords with a higher level of granularity
- C-** Changing the wait mechanism to explicit hard-coded waits
- D-** Establishing an error recovery process for TAS and SUT

## Answer:

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B

## Question 4

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### Question Type: MultipleChoice

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You are executing the first test run of a test automation suite of 200 tests. All the relevant information related to the state of the SUT and to the automated test execution is stored in a small database. During the Automated test run you observe that the first 10 test pass, while an abnormal termination occurs when executing the 11th test. This test does not complete its execution and the overall execution of the suite is aborted. An immediate analysis of the abnormal termination is expected to be time consuming and you have been asked to produce a detailed report of the execution results for the first test run, as soon as possible.

What is the MOST important FIRST step to be taken immediately after the abnormal occurred when executing the 11th test?

### Options:

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- A- Re-run the test automation suite starting from the 12th test
- B- Return the database to a consistent state that allows subsequent test to run
- C- Take a backup of the database in its current state. So It can be analyzed later

**D-** Re-run the test automation suite starting from the 1st test.

**Answer:**

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C

## Question 5

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**Question Type: MultipleChoice**

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Your goal is to verify completeness, consistency and correct behavior of an automated test suite. The TAS has been proven to successfully install in the SUT environment. All the preliminary checks to verify the correct functioning of the automated test environment and test tool configuration, installation and setup have successfully completed.

Which of the following is NOT a relevant check for achieving your goal in this scenario?

**Options:**

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- A-** Checking whether all the test cases contain the expected results
- B-** Checking whether the post condition have been fulfilled for all the test cases
- C-** Checking whether the loading of the TAS is repeatable in the SUT environment

**D-** Checking whether all the test cases produce repeatable outcomes

**Answer:**

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D

## Question 6

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**Question Type:** MultipleChoice

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Consider a TAS that exclusively uses the APIs of a SUT. To make this work, significant changes have been required to the SUT by adding a set of dedicated test interfaces to the APIs. All the automated tests will use these test interfaces when interacting with the SUT. Assume that you are currently verifying the correctness of the automated test environment and test tool setup.

Which of the following would you expect to be the MOST specific risk associated with this scenario?

**Options:**

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- A-** The connectivity from the TAS to the dedicated test interfaces will not work
- B-** The process of configuring the TAS will be error-prone due to manual intervention
- C-** The automated test cases will not contain the expected result

D- False alarms, that are unlikely to occur in the real world, will be observed during testing

**Answer:**

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A

## Question 7

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**Question Type: MultipleChoice**

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Consider a SUT that small run on multiple platform during the execution of automated test runs. In each test run an automated test suite needs to be executed, with the same version of the TAF, against the same version of the SUT of each platform. Each platform shall have its own dedicated test environment. Your goal is to implement a process as automated as possible ( i.e with minimal manual intervention) that allows implementing a consistent setup of the TAS across the multiple test environments.

Which two of the following aspects are MOST relevant for achieving your goal in this scenario?

The configuration of the TAS uses automated installation scripts

The TAF saves the logs needed to debug errors in XML format

C) Features of the TAF not used by the automated tests have been tested

D) All the automated test cases contain the expected results



E) The TAS components are under configuration management

**Options:**

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**A-** A and e

**B-** B and c

**C-** B and d

**D-** A and d

**Answer:**

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A

## Question 8

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**Question Type:** MultipleChoice

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A defect in a SUT has been resolved and validated by an automated defect re-test in the current release of the software. This retest has now been added to the automated regression test suite.

Which statement BEST describes a reason why this defect could re-occur in future releases?

**Options:**

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- A- Automated defect confirmation testing is not effective at confirming that the resolved defect will continue to work in future releases
- B- The configuration management process does not properly control the synchronization between software archives
- C- The automated regression test suite is not run consistently for future releases.
- D- The automated regression test suite has a narrower scope of functionality

**Answer:**

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C

## Question 9

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**Question Type:** MultipleChoice

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Which of the following attributes should NOT be included in a test execution report associated with a suite of automated tests?

**Options:**

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- A- Summary of the test execution results
- B- System/Application under test and its version
- C- Defect clusters identified during test execution
- D- Environment in which the tests have been executed

**Answer:**

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A

## Question 10

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**Question Type:** MultipleChoice

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A TAS uses a commercial test automation tool and the default logs generated by the inconsistent formats such as different types of messages (pass/fail steps, screenshots, warnings, etc.) To solve this issue some custom logging functions have been created from the test scripts, making it possible to log the different types of messages with the same format. However, this may cause a problem due to excessive size of the logs which can make it difficult to find the required information. Assume that all the default logs will be disabled when running the automated tests and that some tests will not generate excessively sized logs.

Which of the following represents the BEST suggestion for implementing the custom logging functions?

### Options:

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- A- Implement the custom logging functions without saving timestamps
- B- Implement the custom logging functions to support different levels of tracing
- C- Implement the custom logging functions without saving stack traces
- D- Implement the custom logging functions to redirect the logs to multiple files

### Answer:

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B

## Question 11

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### Question Type: MultipleChoice

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A project consists of distributed teams working in a 24-hour environment, where activities happen at all hours of the day. This project adopts a CI (Continuous Integration) process when developer check-in code and consists of automated activities that include generating a build and deploying it to a test environment. Automated integration tests are run multiple times a day. The project have asked for a report containing the automation test results for every build, which must be available 24/7 to the project team.

Which of the following would be the BEST way to automatically provides this report?

## Options:

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- A-** Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds), use this database to automatically update a dashboard containing the build history and test results accessible to the project team.
- B-** Store the execution result of the integration tests for the last build to a database (overwriting the results from the previous build), automatically create a test execution report for this build send It via e-mail to the project team
- C-** Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds). Automatically create a test execution report for this build and send it via e-mail to the project team
- D-** Store the code coverage results of the integration tests for the last build to a database (without overwriting the results from the previous builds). And automatically create a chart showing the trend in code coverage and send via email to the project team.

## Answer:

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A

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