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QUESTION 1

You are planning the pilot for an in-house developed Test Automation solution (TAS).

Which two of the following would be important steps to take as part of the planning process?

- a) Review your organisation's current projects and identify which one would be most suitable to pilot the TAS.
- b) Ensure that the developers will provide the necessary commitment for the TAS deployment activities.
- c) Run a series of training workshops for new users of the TAS before they are asked to use it.
- d) Develop a project plan for the pilot and reserve the necessary budget and resources for its implementation.
- e) Ask the developers to provide any missing functionality during the deployment activities.

- A. a and b
- B. b and d
- C. c and d
- D. c and e

Correct Answer: B

QUESTION 2

Which of the following is NOT a technical design consideration for a TAA?

- A. The number of users for the SUT
- B. Availability of interfaces for the SUT to be testable
- C. Standards and Legal requirements, e.g data privacy
- D. Data used by the SUT, e.g configuration, users

Correct Answer: A

QUESTION 3

Consider the following layers of the gTAA structure:

- a.
Test generation layer
- b.

Test definition layer

c.

Test execution layer

d.

Test execution layer

Consider the following capabilities associated with these layers.

Acquire all the necessary resources before each test and release all after run, in order to avoid interdependences between test

Allow the automated test scripts on an abstract level to interact with components, configurations and interfaces of the SUT.

Design test directives that allow configuring the algorithms used to automatically produce the test cases a given model of the SUT.

Allow the definition and implementation of test cases and data by means of templates and/or guidelines.

Which of the following BEST matches each layer with the appropriate capability?

A. a-3, b-4, c-1, d-2

B. a-4, b-3, c-1, d-2

C. a-4, b-3, c-2, d-1

D. a-3, b-4, c-2, d-1

Correct Answer: C

QUESTION 4

You are implementing test automation for a project and you want to be able to generate test cases automatically using a series of test design tools which use a variety of test design techniques such as decision tables, pairwise testing and boundary value analysis.

You also want to generate test data automatically which can then be used by the tests.

Initially these tests will be run manually to verify their correctness and ultimately you want to include them in the test execution tool so that they can run unattended.

Which layer of the gTAA will be used to support the specification of the test cases and preparation of the test data?

A. The generation layer

B. The definition layer

- C. The execution layer
- D. The adaptation layer

Correct Answer: B

Reference: <https://www.slideshare.net/jannatindia/chapter-3-the-generic-test-automation-architecture>

QUESTION 5

You have executed an automated test suite for a product that was released into production. Although all the tests passed, there was a major failure in production in an area that was covered well by your automated tests.

You have run the automated tests again and one of the tests is now failing and this is directly related to the production defect that was raised. You decide to run the automated test suite again on the same version of the SUT and the test now

passes.

What SHOULD you do now to verify the validity of the automated tests?

- A. Remove the intermittently failing test from the test suite and investigate the reason why the test sometimes passes and sometimes fails.
- B. Check that the production defect that was reported was an actual defect
- C. Run the automated test suite again and if the test now passes - do nothing
- D. Reference: https://www.researchgate.net/publication/341396240_Intermittently_Failing_Tests_in_the_Embedded_Systems_Domain

Correct Answer: A

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