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Advanced Level
Test Analyst (CTAL-TA)
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ISTQB (ISTQB CTAL-TA) ISTQB Certified Tester Advanced Level - Test Analyst (Syllabus 2012) Sample Questions (Q61-Q66):

NEW QUESTION # 61
For an ATM banking project the following applies: "When the user first inserts a valid credit card, the system considers the user to be in an unauthenticated state. When requesting a cash advance, the user must be in an authenticated state. The user authenticates by entering the correct PIN code for the card they have used.
During the user authentication, the system shall allow the user to enter their PIN code up to three times before failing the authentication and rejecting the card. On the first and second try, the system shall prompt the user to re-enter the PIN code "
Suppose you are concerned that, depending on the number of invalid PIN codes entered, the system may behave incorrectly. Which of the following test design techniques is specifically targeted at finding such failures?

- A. Equivalence partitioning
- B. Pairwise testing
- C. State transition testing using 1-switch coverage
- D. Classification tree technique

Answer: C

Explanation:
The test design technique that is specifically targeted at finding failures depending on the number of invalid PIN codes entered is state transition testing using 1-switch coverage. State transition testing is a technique that tests the behavior of a system or component based on its states and transitions between them. A 1-switch test case is a test case that covers two states and the transition between them. This technique can test how the system reacts to different sequences of events and how it handles invalid inputs. Verified References:
[ISTQB Certified Tester Advanced Level Test Analyst CTAL-TA], Section 3.4.1, page 39.

NEW QUESTION # 62
Ticket machines are to be installed at the train station of a major European airport to enable newly arriving passengers to quickly purchase their tram tickets.
You are testing this new application and the following Use Case has been provided:
USE CASE: Credit Card Purchase
* Use Case ID: UC-001401
* Purpose: To purchase a single ticket to the city center
* Actors: User
* Preconditions: Ticket machine is at the "select language" screen, user has a valid credit card
□ You have been asked to review this Use Case. Which ONE of the following checklist items are TRUE and will pass?
SELECT ONE OPTION:

- A. Each path is testable
- B. The main path is clearly defined
- C. All alternate paths are identified
- D. All error messages are defined

Answer: B

Explanation:
Comprehensive and Detailed In-Depth Explanation:
* A (All alternate paths are identified):Incorrect. The use case does not mention any alternate paths or exceptions.
* B (All error messages are defined):Incorrect. There are no error message details provided.
* C (Each path is testable):Incorrect. The absence of alternate paths makes this questionable.
* D (The main path is clearly defined):Correct. The use case clearly outlines the main (happy) path from language selection to ticket purchase.
Therefore, the correct answer isD (The main path is clearly defined).

NEW QUESTION # 63

Based on the tax system specification as described below, using boundary value analysis, which would be the best test set to explicitly test on single boundary value fully?

Tax system

A tax system needs to be updated due to new legislation. For a person with a salary of less than € 20 000 and who is married, the tax needs to be recalculated.

If a person has at least three and less than six children, an additional 10% reduction is applicable.

- A. Test set (ii)
- B. Test set (i)
- C. Test set (iv)
- D. Test set (iii)

Answer: A

Explanation:

The test set B is the best test set to explicitly test on single boundary value fully, using boundary value analysis. Boundary value analysis is a technique that tests the values at or near the boundaries of an input domain. The boundaries for this scenario are:

* Salary less than €20 000
* Number of children at least three and less than six

The test set B tests the boundary values of each boundary (€19 999, €20 000, three children, six children) and one value inside each boundary (€19 998, €20 001, four children). Verified References: [ISTQB Certified Tester Advanced Level Test Analyst CTAL-TA], Section 3.2.2, page 35.

NEW QUESTION # 64

A major software upgrade includes many new facilities and presents very different screens based on user roles. Computational accuracy is the greatest business risk. Which quality characteristic would you focus on the MOST when testing the system?
SELECT ONE OPTION

- A. Functional correctness
- B. Functional appropriateness
- C. Installability
- D. Functional completeness

Answer: A

Explanation:

Comprehensive and Detailed in Depth Explanation:

* Functional correctnessensures that the software performs its intended functions accurately and without errors.
* Sincecomputational accuracyis the main risk, testing must focus on verifying that calculations and data processing are performed correctly.
* Functional completeness (A)focuses on whether all required functions are implemented.
* Functional appropriateness (C)checks whether the functions meet user needs.
* Installability (D)concerns the ease of installing the system, not accuracy.

Therefore, the correct answer isB (Functional correctness).

NEW QUESTION # 65

Which TWO of the following BEST explain why stakeholders should review and understand test conditions and test cases?
a) To make sure that the requirements have been understood by the testers b) To ensure that adequate coverage of the test basis has been achieved by the tests c) To ensure that the project remains on schedule, as testing is a key activity d) To assess the skills and talent of the test analysts e) To enable the test manager to select the best test approaches in the project test plan SELECT ONE OPTION

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

Answer: B

Explanation:
Comprehensive and Detailed in Depth Explanation:
* a) To make sure that the requirements have been understood by the testers:Stakeholder review helps validate that the test conditions and cases reflect the requirements correctly.
* b) To ensure that adequate coverage of the test basis has been achieved by the tests:Stakeholders confirm that the tests cover all relevant aspects of the requirements and risk areas.
* c) To ensure that the project remains on schedule, as testing is a key activity:While important, this is not a primary reason for stakeholders to review test conditions.
* d) To assess the skills and talent of the test analysts:This is not the purpose of reviewing test conditions.
* e) To enable the test manager to select the best test approaches in the project test plan:This is a test planning activity, not a reason for stakeholder review.
Therefore, the correct answer isB (a and b).

NEW QUESTION # 66

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