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ISTQB (ISTQB CTAL-TA) ISTQB Certified Tester Advanced Level - Test Analyst (Syllabus 2012) Sample Questions (Q69-Q74):

NEW QUESTION # 69

REQ1 a sun cancer warning system shall produce a daily score sheet based on the number of hours expose to the sun and the intensity of sun radiation.

REQ2 The number of hours exposed to the sun shall be categorized in A (below 2), B (2 to 4 hours) or C (more than 4 hours)

REQ3 The intensity of sun radiation shall be labelled as low, medium, high, or extreme.

Based on the requirements stated above a Test Analyst has defined the following three test cases:

How many test conditions to be identified from requirements REQ2 and REQ3, are NOT covered by the three test cases:

Hour exposed to the sun		Sun intensity
TC 1	1.5	Low
TC 2	6.0	Medium
TC 3	1.0	Low

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

Four test conditions to be identified from requirements REQ2 and REQ3 are not covered by the three test cases. A test condition is an item or event of a component or system that could be verified by one or more test cases, such as a function, transaction, feature, quality attribute, or structural element. The test conditions to be identified from REQ2 and REQ3 are:

- * Number of hours exposed to the sun = A
- * Number of hours exposed to the sun = B
- * Number of hours exposed to the sun = C
- * Intensity of sun radiation = low
- * Intensity of sun radiation = medium
- * Intensity of sun radiation = high
- * Intensity of sun radiation = extreme

The test conditions that are not covered by the three test cases are:

- * Number of hours exposed to the sun = A
- * Intensity of sun radiation = low
- * Intensity of sun radiation = high
- * Intensity of sun radiation = extreme

Verified References: [ISTQB Certified Tester Advanced Level Test Analyst CTAL-TA], Section 2.2.1, page 21.

NEW QUESTION # 70

What are ways in which classification trees support the application of pairwise testing?

a. They help to identify inputs to be used by the pairwise test technique b. They show the combinations needed to cover all-pairs c. They help to identify particular combinations of interest d. They show both typical and atypical behavior e. They show the expected results for the various test cases

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

Answer: B

Explanation:

Classification trees support the application of pairwise testing in the following ways:

- a. They help to identify inputs to be used by the pairwise test technique - This is true because classification trees show the classes and subclasses of inputs for a given scenario in a graphical way.
- b. They show the combinations needed to cover all-pairs - This is true because classification trees can be used to generate the combinations of inputs that cover all pairs using a mathematical algorithm.
- c. They help to identify particular combinations of interest - This is true because classification trees can be used to highlight or prioritize certain combinations of inputs that are more relevant or important for the scenario.
- d. They show both typical and atypical behavior - This is false because classification trees do not show the behavior or the expected results of the system under test, only the inputs and outputs.
- e. They show the expected results for the various test cases - This is false because classification trees do not show the expected results or the verification criteria for the test cases, only the inputs and outputs. Verified References: [ISTQB Certified Tester Advanced Level Test Analyst CTAL-TA], Section 3.5.2, page 42.

NEW QUESTION # 71

You are testing a hospital patient management system. New or amended patient data is captured by hospital administrators using an in-house patient capture application and transmitted to one or more hospital departments depending on the nature of the medical condition. Each department operates its own software package.

There has been a change to the patient capture application, and you are going to run a series of interoperability tests.

Which TWO of the following are NOT interoperability defects?

a) The patient name field is truncated on one of the receiving department systems b) Hospital administrators find the new patient-capture application screens difficult to navigate c) Two department systems are unable to recognize the format of international telephone numbers for foreign patients d) Existing patient data takes too long to retrieve by the patient-capture application e) There are spelling errors in the field names on some screens

SELECT ONE OPTION:

- A. a, b
- B. a, c
- C. b, d

Answer: C

Explanation:

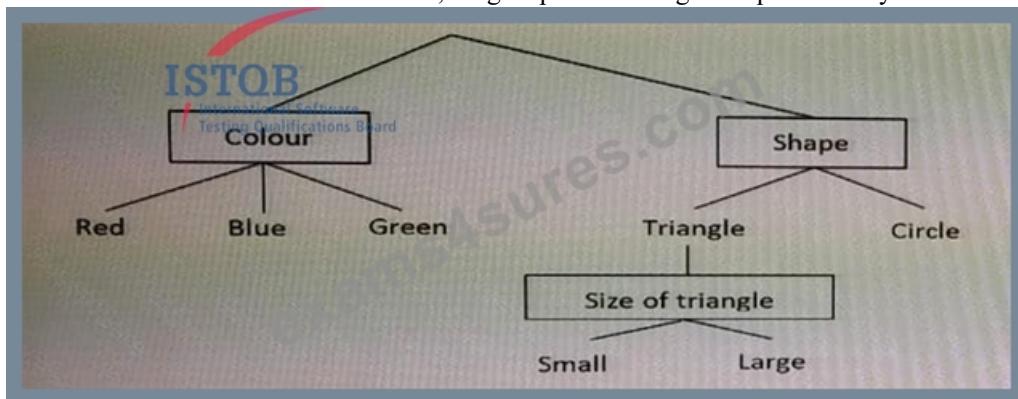
Comprehensive and Detailed In-Depth Explanation:

- * a)Truncated data is an interoperability issue related to data exchange between systems.
- * b)User navigation issues are related to usability, not interoperability.
- * c)Format mismatch between systems is an interoperability defect.
- * d)Slow data retrieval is related to performance, not interoperability.
- * e)Spelling errors relate to usability, not interoperability.

Therefore, the correct answer is A (b, d).

NEW QUESTION # 72

Based on the classification tree shown below, using the pairwise testing technique how many test cases are required to test all pairs?



- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

Nine test cases are required to test all pairs using the pairwise testing technique based on the classification tree. Pairwise testing is a technique that tests all possible pairs of inputs for a given scenario using a mathematical algorithm to reduce the number of combinations. The inputs for this scenario are:

- * Power Unit: Petrol, Electric, Hybrid
- * Body Style: Saloon, Hatchback, SUV
- * Color: Red, Blue

The number of test cases is equal to the number of combinations generated by the algorithm that cover all pairs of inputs. Verified References: [ISTQB Certified Tester Advanced Level Test Analyst CTAL-TA], Section 3.5.2, page 42.

NEW QUESTION # 73

An airline provides self-service check-in kiosks for its passengers. The user is asked to present the passport for reading, enter the flight booking number, the seats requested, the number of bags to check-in, and acknowledge that security requirements have been met. The machine then prints the boarding passes.

The following use case has been created:

USE CASE: SELF-SERVICE CHECK-IN

* Use case ID:UC23

* Purpose: Passenger checks-in using the self-service kiosk application.

* Actors: Passenger, System

* Pre-conditions: User selects to start self-service check-in at the kiosk and the system asks the user to place the passport on the reader.

STEP	ACTOR Action	STEP	SYSTEM action
1	Passenger places Passport on reader	2	System verifies the passport. If passport read successfully, asks Passenger to enter Flight booking number
		E1	Passport not recognized. Try again.
		E2	Three failed passport reading attempts. Passenger referred to check-in desk.
3	Passenger retrieves passport and enters Flight booking number	4	System verifies flight booking number, retrieves and displays seating plan
		E3	Flight booking number not recognized. Passenger prompted to try again.
5	Passenger selects seats	6	System verifies seat requests and displays checked bags screen
		E4	Seat requests invalid. Passenger prompted to try again.
7	Passenger enters number of checked bags	8	System verifies checked bag entries and displays security screen
		E5	Check-in bags number invalid. Passenger prompted to try again.
9	Passenger confirms security requirements met	10	System prints boarding passes
		E6	Security requirements not acknowledged. Passenger prompted to read and confirm.
		E7	Unable to print boarding passes. Passenger referred to check-in desk.
11	Passenger clicks Finish and collects boarding passes		↓

You are to apply the Use Case test technique, where the following coverage rules have been defined in the test plan:

* One test case should be designed for the basic behavior.

* One test case should be designed for each alternate and error-handling behavior.

Applying these rules to the Self-Service Check-In Use Case, how many test cases should be designed?

SELECT ONE OPTION:

- A. 0
- B. 1
- C. 2
- D. 3

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The use case has one basic behavior (happy path) where all steps are completed without any errors.

In addition, there are 7 error-handling cases (E1 to E7) that each require a separate test case to verify that the system correctly handles each error condition.

Therefore, the total number of test cases required is:

* 1 basic behavior test case

* 7 error-handling test cases

$$1+7=8$$

Hence, the correct answer is B (8).

NEW QUESTION # 74

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