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BCS ISTQB Certified Tester Foundation Level CTFL 4.0 Sample Questions (Q157-Q162):

NEW QUESTION # 157

Following a risk-based testing approach you have designed 10 tests to cover a product risk with a high-risk level. You want to estimate, adopting the three-point test estimation technique, the test effort required to reduce the risk level to zero by executing those 10 tests. You made the following three initial estimates:

- * most optimistic = 6 person hours
- * most likely = 30 person hours
- * most pessimistic = 54 person hours

Based only on the given information, which of the following answers about the three-point test estimation technique applied to this problem is true?

- A. The final estimate is between 6 person hours and 54 person hours
- B. The final estimate is exactly 30 person hours because the technique uses the arithmetic mean of the three initial estimates as the final estimate
- C. The final estimate is exactly 30 person hours because the technique uses the initial most likely estimate as the final estimate
- D. The final estimate is between 22 person hours and 38 person hours

Answer: D

Explanation:

The three-point test estimation technique is a method of estimating the test effort based on three initial estimates: the most optimistic, the most likely, and the most pessimistic. The technique uses a weighted average of these three estimates to calculate the final estimate, which is also known as the expected value. The formula for the expected value is:

Expected value = (most optimistic + 4 * most likely + most pessimistic) / 6 Using the given values, the expected value is:

Expected value = $(6 + 4 * 30 + 54) / 6$ Expected value = 30 person hours However, the expected value is not the only factor to consider when estimating the test effort. The technique also calculates the standard deviation, which is a measure of the variability or uncertainty of the estimates. The formula for the standard deviation is:

Standard deviation = (most pessimistic - most optimistic) / 6

Using the given values, the standard deviation is:

Standard deviation = $(54 - 6) / 6$ Standard deviation = 8 person hours

The standard deviation can be used to determine a range of possible values for the test effort, based on a certain level of confidence.

For example, using a 68% confidence level, the range is:

Expected value $\pm$ standard deviation

Using the calculated values, the range is:

30 ± 8 person hours

Therefore, the final estimate is between 22 person hours and 38 person hours, which is option A.

NEW QUESTION # 158

During component testing of a program if 100% decision coverage is achieved, which of the following coverage criteria is also guaranteed to be 100%?

- A. 100% Equivalence class coverage
- **B. 100% Statement coverage**
- C. 100% Boundary value coverage
- D. 100% State transition coverage

Answer: B

Explanation:

Statement coverage is a structural coverage metric that measures the percentage of executable statements in the source code that are executed by a test suite¹. Decision coverage is another structural coverage metric that measures the percentage of decision outcomes (such as branches or conditions) in the source code that are executed by a test suite¹. Decision coverage is a stronger metric than statement coverage, because it requires that every possible outcome of each decision is tested, while statement coverage only requires that every statement is executed at least once². Therefore, if a test suite achieves 100% decision coverage, it also implies that it achieves 100% statement coverage, because every statement in every branch or condition must have been executed. However, the converse is not true: 100% statement coverage does not guarantee 100% decision coverage, because some branches or conditions may have multiple outcomes that are not tested by the test suite². For example, consider the following pseudocode:

```
if (x > 0) then print("Positive") else print("Non-positive") end if
```

A test suite that executes this code with $x = 1$ and $x = -1$ will achieve 100% statement coverage, because both print statements are executed. However, it will not achieve 100% decision coverage, because the condition $x > 0$ has only been tested with two outcomes: true and false. The third possible outcome, $x = 0$, has not been tested by the test suite. Therefore, the test suite may miss a potential bug or error in the condition or the branch.

The other options, such as state transition coverage, equivalence class coverage, and boundary value coverage, are not guaranteed to be 100% by achieving 100% decision coverage. State transition coverage is a structural coverage metric that measures the percentage of transitions between states in a state machine that are executed by a test suite³. Equivalence class coverage is a functional coverage metric that measures the percentage of equivalence classes (or partitions) of input or output values that are tested by a test suite⁴. Boundary value coverage is another functional coverage metric that measures the percentage of boundary values (or extreme values) of input or output ranges that are tested by a test suite⁴. These metrics are independent of decision coverage, because they are based on different aspects of the system under test, such as its behavior, functionality, or specification. Therefore, achieving 100% decision coverage does not imply achieving 100% of any of these metrics, and vice versa. Reference = ISTQB Certified Tester Foundation Level Syllabus v4.0, Test Coverage in Software Testing - Guru99, Structural Coverage Metrics - MATLAB & Simulink - MathWorks India, Test Design Coverage in Software Testing - GeeksforGeeks.

NEW QUESTION # 159

Which of the following statements about retrospectives is TRUE?

- A. Only developers and testers should be involved in retrospectives, as involving people in other roles is very likely to prevent developers and testers from having open and constructive discussions that really help identify process improvements.
- **B. During retrospectives, in addition to identifying relevant process improvements, participants should also consider how to implement these improvements and retain them based on the context of the project, such as the software development lifecycle.**
- C. On Agile projects, well-conducted retrospectives at the end of each iteration can help the team reduce and sometimes even eliminate the need for daily stand-up meetings.
- D. Retrospectives can be very effective in identifying process improvements and can also be very efficient and cost-effective especially since, unlike reviews, they do not require any follow-up activities

Answer: B

Explanation:

Retrospectives are a crucial part of Agile practices, aiming to identify process improvements and determine how to implement them effectively. They should involve participants discussing not only what improvements could be made but also how to integrate and sustain those improvements within the project context, including the software development lifecycle. This makes statement D accurate according to the ISTQB CTFL syllabus.

NEW QUESTION # 160

To be able to define testable acceptance criteria, specific topics need to be addressed. In the table below are the topics matched to an incorrect description. Match the topics (the left column) with the correct description (the right column) TopicDescription

- A. Business rulesD; Description of the connections between the system to be developed and the outside world.
- B. A to C, B to A, C to B, D to D and E to E
- C. ScenariosC: The externally observable behaviour with user actions as input operating under certain configurations.
- D. External interfacesE: Activities that can only be performed in the system under certain conditions defined by outside procedures and constraints.
- E. A to E, B to A, C to B, D to C and E to D
- **F. How the system performs the specific behaviour.**
8: Quality characteristicsB: A sequence of actions between an external actor and the system, to accomplish a specific goal or business task.
- G. A TO A, B TO B, C TO B, D TO E AND E TO D
- H. A to C, B to A, C to B. D to E and E to D

Answer: F

Explanation:

The correct matching of the topics with their descriptions is as follows:

- * Functional behaviour: The externally observable behaviour with user actions as input operating under certain configurations (A to C).
- * Quality characteristics: How the system performs the specific behaviour (B to A).
- * Scenarios: A sequence of actions between an external actor and the system, to accomplish a specific goal or business task (C to B).
- * Business rules: Activities that can only be performed in the system under certain conditions defined by outside procedures and constraints (D to E).
- * External interfaces: Description of the connections between the system to be developed and the outside world (E to D).

NEW QUESTION # 161

Which ONE of the following activities TYPICALLY belongs to the planning phase of the review process?

- A. Each reviewer conducts an individual review to identify anomalies, recommendations, and questions.
- B. A separate defect report is created for each identified defect so that corrective actions can be tracked.
- **C. The purpose and scope of the review are defined, as well as the work product to be reviewed and the exit criteria.**
- D. The reviewers analyze and discuss the anomalies found during the review in a joint meeting.

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation:The planning phase of the review process(C) includes defining the review's

purpose, scope, and exit criteria to ensure alignment. Option A is part of the defect management phase, B happens during individual preparation, and D takes place in the review meeting.

NEW QUESTION # 162

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