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ISQI ISTQB Certified Tester Foundation Level (CTFL) v4.0 Sample Questions (Q21-Q26):

NEW QUESTION # 21

Which of the following statements refers to good testing practice to be applied regardless of the chosen software development model?

- A. Test levels should be defined such that the exit criteria of one level are part of the entry criteria for the next level
- B. Tests should be written in executable format before the code is written and should act as executable specifications that drive coding
- C. Involvement of testers in work product reviews should occur as early as possible to take advantage of the early testing principle
- D. Test objectives should be the same for all test levels, although the number of tests designed at various levels can vary significantly

Answer: C

Explanation:

The statement that refers to good testing practice to be applied regardless of the chosen software development model is option D, which says that involvement of testers in work product reviews should occur as early as possible to take advantage of the early testing principle. Work product reviews are static testing techniques, in which the work products of the software development process, such as the requirements, the design, the code, the test cases, etc., are examined by one or more reviewers, with or without the author, to identify defects, violations, or improvements. Involvement of testers in work product reviews can provide various benefits for the testing process, such as improving the test quality, the test efficiency, and the test communication. The early testing principle states that testing activities should start as early as possible in the software development lifecycle, and should be performed iteratively and continuously throughout the lifecycle. Applying the early testing principle can help to prevent, detect, and remove defects at an early stage, when they are easier, cheaper, and faster to fix, as well as to reduce the risk, the cost, and the time of the testing process. The other options are not good testing practices to be applied regardless of the chosen software development model, but rather specific testing practices that may or may not be applicable or beneficial for testing, depending on the context and the objectives of the testing activities, such as:

* Tests should be written in executable format before the code is written and should act as executable specifications that drive coding: This is a specific testing practice that is associated with test-driven development, which is an approach to software development and testing, in which the developers write automated unit tests before writing the source code, and then refactor the code until the tests pass.

Test-driven development can help to improve the quality, the design, and the maintainability of the code, as well as to provide fast feedback and guidance for the developers. However, test-driven development is not a good testing practice to be applied regardless of the chosen software development model, as it may not be feasible, suitable, or effective for testing in some contexts or situations, such as when the requirements are unclear, unstable, or complex, when the test automation tools or skills are not available or adequate, when the testing objectives or levels are not aligned with the unit testing, etc.

* Test levels should be defined such that the exit criteria of one level are part of the entry criteria for the next level: This is a specific testing practice that is associated with sequential software development models, such as the waterfall model, the V-model, or the W-model, in which the software development and testing activities are performed in a linear and sequential order, with well-defined phases, deliverables, and dependencies. Test levels are the stages of testing that correspond to the levels of integration of the software system, such as component testing, integration testing, system testing, and acceptance testing. Test levels should have clear and measurable entry criteria and exit criteria, which are the conditions that must be met before starting or finishing a test level. In sequential software development models, the exit criteria of one test level are usually part of the entry criteria for the next test level, to ensure that the software system is ready and stable for the next level of testing. However, this is not a good testing practice to be applied regardless of the chosen software development model, as it may not be relevant, flexible, or efficient for testing in some contexts or situations, such as when the software development and testing activities are performed in an iterative and incremental order, with frequent changes, feedback, and adaptations, as in agile software development models, such as Scrum, Kanban, or XP, when the test levels are not clearly defined or distinguished, or when the test levels are performed in parallel or concurrently, etc.

* Test objectives should be the same for all test levels, although the number of tests designed at various levels can vary significantly: This is a specific testing practice that is associated with uniform software development models, such as the spiral model, the incremental model, or the prototyping model, in which the software development and testing activities are performed in a cyclical and repetitive manner, with similar phases, deliverables, and processes. Test objectives are the goals or the purposes of testing, which can vary depending on the test level, the test type, the test technique, the test environment, the test stakeholder, etc. Test objectives can be defined in terms of the test basis, the test coverage, the test quality, the test risk, the test cost, the test time, etc. Test objectives should be specific, measurable, achievable, relevant, and time-bound, and they should be aligned with the project objectives and the quality characteristics. In uniform software development models, the test objectives may be the same for all test levels, as the testing process is repeated for each cycle or iteration, with similar focus, scope, and perspective of testing. However, this is not a good testing practice to be applied regardless of the chosen software development model, as it may not be appropriate, realistic, or effective for testing in some contexts or situations, such as when the software development and testing activities are performed in a hierarchical and modular manner, with different phases, deliverables, and dependencies, as in sequential software development models, such as the waterfall model, the V-model, or the W-model, when the test objectives vary according to the test levels, such as component testing, integration testing, system testing, and acceptance testing, or when the test objectives change according to the feedback, the

* learning, or the adaptation of the testing process, as in agile software development models, such as Scrum, Kanban, or XP, etc.

References: ISTQB Certified Tester Foundation Level (CTFL) v4.0 sources and documents:

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.1.1, Testing and the Software Development Lifecycle1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.2.1, Testing Principles1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.2.2, Testing Policies, Strategies, and Test Approaches1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.3.1, Testing in Software Development Lifecycles1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.1.1, Test Planning1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.1.2, Test Monitoring and Control1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.1.3, Test Analysis and Design1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.1.4, Test Implementation1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.1.5, Test Execution1

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.1.6, Test Closure1

NEW QUESTION # 22

The following rules determine the annual bonus to be paid to a salesman of a company based on the total annual amount of the sales made (referred to as TAS).

If the TAS is between 50k€ and 80k€, the bonus is 10%. If the TAS exceeds 80k€ by a value not greater than

40k€, the bonus is 15%. Finally, if the TAS

exceeds the maximum threshold which entitles to a 15% bonus, the bonus is 22%.

Consider applying equivalence partitioning to the TAS (Note: 1k€ = 1000 euros).

Which one of the following answers contain only test cases that belong to the same equivalence partition?

- A. TC1 = 90k€; TC2= 110k€; TC3=125k€; TC4=140k€
- B. **TC1 = 81 k€; TC2= 97k€; TC3=111k€; TC4=118k€**
- C. TC1 = 40k€; TC2= 46k€; TC3=51k€; TC4=53k€
- D. TC1 = 79k€; TC2= 80k€; TC3=81k€; TC4=82k€

Answer: B

Explanation:

This answer is correct because equivalence partitioning is a test design technique that divides the input domain of a system or component into partitions of equivalent data, such that each partition is expected to produce the same output or behavior.

Equivalence partitioning aims to reduce the number of test cases by selecting one representative value from each partition. In this case, the input domain of the TAS can be divided into four partitions based on the bonus rules: less than 50k€, between 50k€ and 80k€, between 80k€ and 120k€, and more than 120k€. The test cases in the answer belong to the same partition, which is between 80k€ and 120k€, and they are expected to produce the same output, which is a bonus of 15%. References: ISTQB Glossary of Testing Terms v4.0, ISTQB Foundation Level Syllabus v4.0, Section 2.3.2.1

NEW QUESTION # 23

An e-commerce site accepts credit cards for processing the payment. The payment processing form has a field for the amount of money to be deducted. The minimum amount of money that can be processed is \$10. The credit cards have a limit of \$5,000 (Five Thousand). Assume that only integers can be accepted as inputs.

Which of the following set of boundary values you will choose for EFFICIENT testing for the amount of money that can be spent?

- A. 10,5000
- B. 9,10,5000,5001
- C. 9,5001
- D. **9,10,11,4999,5000,5001**

Answer: D

Explanation:

Boundary value analysis involves testing at the boundaries between partitions. The most efficient boundary values to test are those at the edge of the input ranges:

- * Just below the minimum value (9)
- * At the minimum value (10)
- * Just above the minimum value (11)
- * Just below the maximum value (4999)
- * At the maximum value (5000)
- * Just above the maximum value (5001)

Testing these values ensures that the program handles the boundaries correctly, covering both valid and invalid input scenarios.

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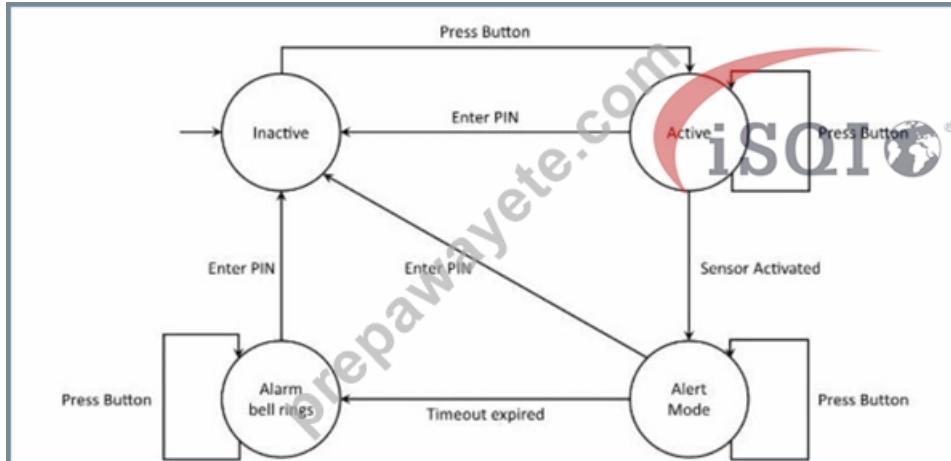
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NEW QUESTION # 24

An anti-intrusion system is battery powered and is activated by pressing the only available button. To deactivate the system, the operator must enter a PIN code. The system will stay in alert mode within a configurable timeout and an alarm bell will ring if the

system is not deactivated before the timeout expires.

The following state transition diagram describes the behavior of the system:



What is the minimum number of test cases needed to cover every unique sequence of exactly 4 states/3 transitions starting and ending in the "Inactive" state? (note that "Inactive" is not a final state in the diagram)

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

Answer: B

Explanation:

In the given state transition diagram, we need to identify the minimum number of test cases required to cover every unique sequence of exactly 4 states/3 transitions starting and ending in the "Inactive" state.

The states are:

- * Inactive
- * Active
- * Alert Mode
- * Alarm bell rings
- * Inactive -> Active -> Inactive -> Active -> Inactive
- * Sequence: Press Button, Enter PIN, Press Button, Enter PIN
- * Inactive -> Active -> Alert Mode -> Inactive
- * Sequence: Press Button, Sensor Activated, Enter PIN
- * Inactive -> Active -> Alert Mode -> Alarm bell rings -> Inactive
- * Sequence: Press Button, Sensor Activated, Timeout expired, Press Button

Test Case Analysis: These sequences cover every unique combination of exactly 4 states and 3 transitions starting and ending in the "Inactive" state.

References:

ISTQB CTFL Syllabus Section 4.2 on state transition testing.

NEW QUESTION # 25

Which of the following is a role that is usually responsible for documenting the findings (e.g., action items, decisions, recommendations) made by the review team as part of a typical formal review?

- A. Recorder
- B. Review leader
- C. Facilitator
- D. Moderator

Answer: A

Explanation:

In a typical formal review process, the role usually responsible for documenting the findings, such as action items, decisions, and recommendations, made by the review team is the recorder. The recorder ensures that all discussions and conclusions are accurately captured and documented for future reference and follow-up.

NEW QUESTION # 26

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