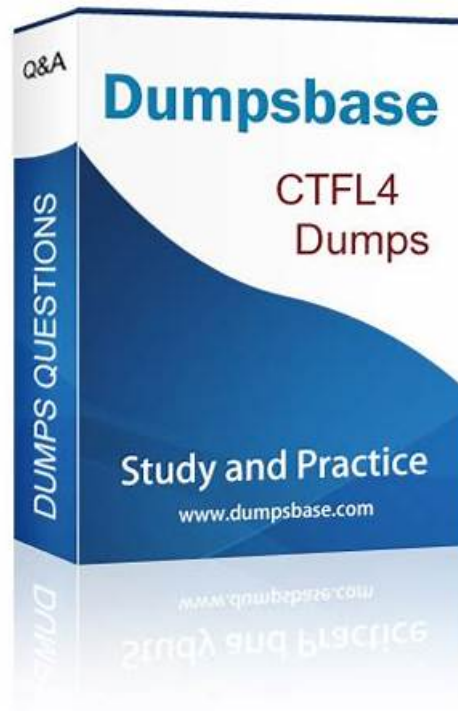


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BCS CTFL4 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • Fundamentals of Testing: It discusses the basic principles related to testing. The topic evaluates your understandings about the test process.
Topic 2	<ul style="list-style-type: none"> • Managing the Test Activities: This topic explains how to plan tests in general, monitor and control test activities, and report defects in a clear and understandable way.
Topic 3	<ul style="list-style-type: none"> • Static Testing: The topic covers static testing basics, the feedback and review process.

BCS ISTQB Certified Tester Foundation Level CTFL 4.0 Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which of the following work products cannot be examined by static analysis?

- A. Test plans
- B. Source code
- C. Formal models
- D. Compiled code

Answer: A

Explanation:

Static analysis is the process of examining the work products of a software development or testing activity without executing them. Static analysis can be applied to various types of work products, such as requirements, design, code, test cases, etc. However, test plans are not suitable for static analysis, because they are high-level documents that describe the test objectives, scope, strategy, resources, schedule, and risks of a testing project. Test plans are not executable or formalized in a way that static analysis tools can analyze them. Therefore, option A is the correct answer.

References: ISTQB Certified Tester Foundation Level Syllabus v4.01, Section 2.2.1, page 20; ISTQB Glossary v4.02, page 45.

NEW QUESTION # 52

Given the following User Story: "As an online customer, I would like to be able to cancel the purchase of an individual item from a shopping list so that it only displays the relevant items, in less than 1 second", which of the following can be considered as applicable acceptance test cases?

- I. Click on my online shopping list, select the unwanted item, delete the unwanted item, the unwanted item is deleted from the shopping list in less than 1 second.
- ii. Click on my online shopping list, select all the items, delete all the items, the unwanted items are deleted from the shopping list in less than 1 second.
- iii. Tab to the online shopping list and press enter, select the unwanted item, delete the unwanted item, the unwanted item is deleted from the shopping list in less than 1 second.
- iv. Click on the checkout button, select the payment method, make payment, confirmation received of payment and shipping date.
- v. Click on my shopping list, select the unwanted item, delete the unwanted item, the unwanted item is deleted from the shopping list.

Select the correct answer:

- A. v
- B. iv
- C. i and iii
- D. I, ii and v

Answer: C

Explanation:

Applicable acceptance test cases for the given user story should focus on the specific requirement of deleting an individual item from the shopping list and ensuring that it is removed in less than 1 second. Therefore, the valid test cases are: i. Click on my online shopping list, select the unwanted item, delete the unwanted item, the unwanted item is deleted from the shopping list in less than 1 second. iii. Tab to the online shopping list and press enter, select the unwanted item, delete the unwanted item, the unwanted item is deleted from the shopping list in less than 1 second.

Reference: ISTQB CTFL Syllabus V4.0, Section 5.2.2

NEW QUESTION # 53

Which of the following statements about white-box test techniques is true?

- A. Branch coverage is the most thorough code-related white-box test technique, and therefore applicable standards prescribe achieving full branch coverage at the highest safety levels for safety-critical systems
- **B. Code-related white-box test techniques provide an objective measure of coverage and can be used to complement black-box test techniques to increase confidence in the code**
- C. Achieving full statement coverage and full branch coverage for a software product means that such software product has been fully tested and there are no remaining bugs within the code
- D. Code-related white-box test techniques are not required to measure the actual code coverage achieved by black-box testing, as code coverage can be measured using the coverage criteria associated with black-box test techniques

Answer: B

Explanation:

This answer is correct because code-related white-box test techniques are test design techniques that use the structure of the code to derive test cases. They provide an objective measure of coverage, such as statement coverage, branch coverage, or path coverage, which indicate how much of the code has been exercised by the test cases. Code-related white-box test techniques can be used to complement black-box test techniques, which are test design techniques that use the functional or non-functional requirements of the system or component to derive test cases. By combining both types of techniques, testers can increase their confidence in the code and find more defects. Reference: ISTQB Glossary of Testing Terms v4.0, ISTQB Foundation Level Syllabus v4.0, Section 2.3.2.2

NEW QUESTION # 54

A program is used to control a manufacturing line (turn machines on and off, start and stop conveyer belts, add raw materials to the flow, etc.). Not all actions are possible at all times. For example, there are certain manufacturing stages that cannot be stopped - unless there is an emergency. A tester attempts to evaluate if all such cases (where a specific action is not allowed) are covered by the tests.

Which coverage metric will provide the needed information for this analysis?

- **A. Branch Coverage**
- B. Data flow coverage
- C. Statement coverage
- D. Code coverage

Answer: A

Explanation:

Branch coverage is a type of structural coverage metric that measures the percentage of branches or decision outcomes that are executed by the test cases. A branch is a point in the code where the control flow can take two or more alternative paths based on a condition. For example, an if-else statement is a branch that can execute either the if-block or the else-block depending on the evaluation of the condition. Branch coverage ensures that each branch is taken at least once by the test cases, and thus reveals the behavior of the software under different scenarios. Branch coverage is also known as decision coverage or all-edges coverage. Branch coverage is suitable for testing the cases where a specific action is not allowed, because it can verify that the test cases cover all the possible outcomes of the conditions that determine the action. For example, if the program has a condition that checks if the manufacturing stage can be stopped, then branch coverage can ensure that the test cases cover both the cases where the stage can be stopped and where it cannot be stopped. This way, branch coverage can help identify any missing or incorrect branches that may lead to undesired or unsafe actions.

The other options are not correct because they are not suitable for testing the cases where a specific action is not allowed. Code coverage is a general term that encompasses various types of coverage metrics, such as statement coverage, branch coverage, data flow coverage, etc. Code coverage does not specify which type of coverage metric is used for the analysis. Data flow coverage is a type of structural coverage metric that measures the percentage of data flow paths that are executed by the test cases. A data flow path is a sequence of statements that define, use, or kill a variable. Data flow coverage is useful for testing the correctness and completeness of the data manipulation in the software, but not for testing the conditions that determine the actions. Statement coverage is a type of structural coverage metric that measures the percentage of statements or lines of code that are executed by the test cases. Statement coverage ensures that each statement is executed at least once by the test cases, but it does not reveal the behavior of the software under different scenarios. Statement coverage is a weaker criterion than branch coverage, because it does not account for the branches or decision outcomes in the code. Reference = ISTQB Certified Tester Foundation Level (CTFL) v4.0

NEW QUESTION # 55

Which of the following statements is true?

- A. A defect may cause a failure which, when occurring, always causes an error
- B. A defect does not always produce a failure, while a bug always produces a failure
- **C. Failures can be caused by defects, but also by environmental conditions**
- D. Bugs are defects found during component testing, while failures are defects found at higher test levels

Answer: C

Explanation:

Failures can be caused by defects, but also by environmental conditions. A failure is an event in which the software system does not perform a required function or performs a function incorrectly, according to the expected behavior. A defect is a flaw in the software system or a deviation from the requirements or the specifications, that may cause a failure. However, not all failures are caused by defects, as some failures may be caused by environmental conditions, such as hardware malfunctions, network interruptions, power outages, incompatible configurations, etc. Environmental conditions are factors that affect the operation of the software system, but are not part of the software system itself. The other statements are false, because:

A defect does not always produce a failure, while a bug always produces a failure. This statement is false, because a defect may or may not produce a failure, depending on the inputs, the outputs, the states, or the scenarios of the software system, and a bug is just another term for a defect, so it has the same possibility of producing a failure as a defect. For example, a defect in a rarely used feature or a hidden branch of the code may never produce a failure, while a defect in a frequently used feature or a critical path of the code may produce a failure often. A bug is not a different concept from a defect, but rather a synonym or a colloquial term for a defect, so it has the same definition and implications as a defect.

A defect may cause a failure which, when occurring, always causes an error. This statement is false, because an error is not a consequence of a failure, but rather a cause of a defect. An error is a human action or a mistake that produces a defect in the software system, such as a typo, a logic flaw, a requirement misunderstanding, etc. An error is not observable in the software system, but rather in the human mind or the human work products, such as the code, the design, the documentation, etc. A failure is not a cause of an error, but rather a result of a defect, which is a result of an error. For example, an error in the code may cause a defect in the software system, which may cause a failure in the software behavior.

Bugs are defects found during component testing, while failures are defects found at higher test levels. This statement is false, because bugs and failures are not different types of defects, but rather different terms for defects and their manifestations. As mentioned before, bugs are just another word for defects, and failures are the events in which the software system does not perform as expected due to defects. Bugs and failures can be found at any test level, not only at component testing or higher test levels. 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. Defects and failures can occur and be detected at any test level, depending on the test objectives, the test basis, the test techniques, and the test environment. Reference: ISTQB Certified Tester Foundation Level (CTFL) v4.0 sources and documents:

ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.1.2, Testing and Quality1 ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.2.1, Testing Principles1 ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 1.3.1, Testing in Software Development Lifecycles1 ISTQB Glossary of Testing Terms v4.0, Failure, Defect, Bug, Environmental Condition, Error, Test Level2

NEW QUESTION # 56

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