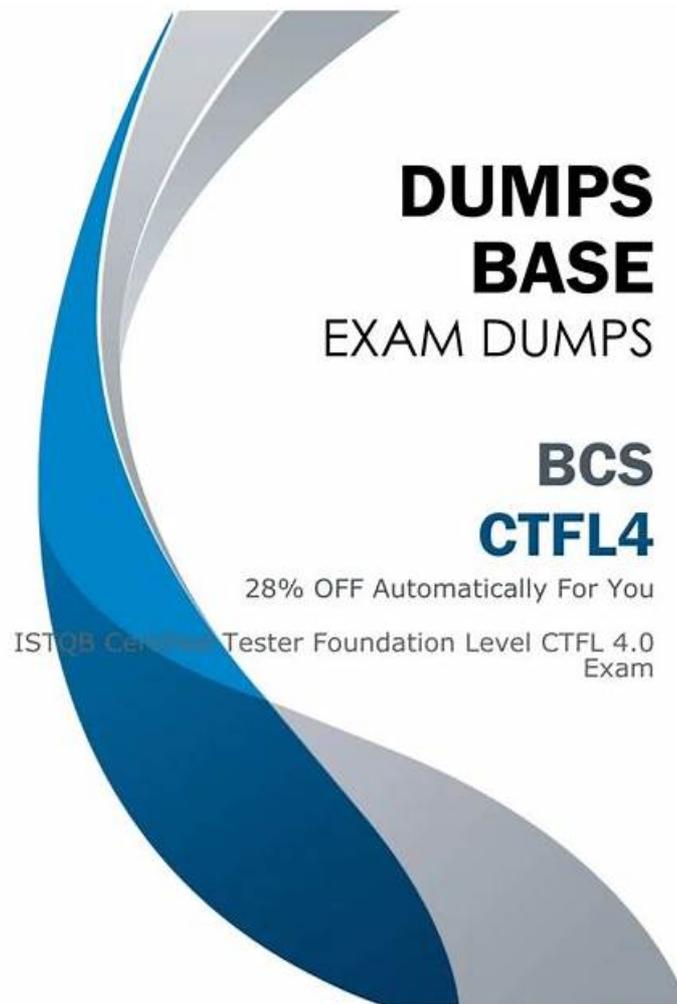


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BCS CTFL4 Exam Syllabus Topics:

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">• Static Testing: The topic covers static testing basics, the feedback and review process.
Topic 3	<ul style="list-style-type: none">• Test Tools: The topic discusses classification of tools. It also focuses on the risks and benefits of test automation.

Topic 4	<ul style="list-style-type: none"> • Test Analysis and Design: It focuses on black-box and the collaboration-based test approach.
Topic 5	<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.

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BCS ISTQB Certified Tester Foundation Level CTFL 4.0 Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which of the following statements about statement coverage is TRUE?

- A. Achieving 100% statement coverage ensures that 100% branch coverage is achieved
- B. Achieving 100% statement coverage ensures that no variable within the code has been used without being initialised.
- **C. Achieving 80% statement coverage ensures that 80% of all executable statements within the code have been exercised.**
- D. Achieving 90% statement coverage ensures that 90% branch coverage is achieved.

Answer: C

Explanation:

Statement coverage measures the percentage of executable statements that have been exercised by a test suite. Achieving 80% statement coverage means that 80% of the executable code lines have been tested. This metric helps in understanding how much of the code has been covered during testing. However, it does not guarantee branch coverage, variable initialization, or detection of all possible defects. The ISTQB CTFL Syllabus v4.0 explains statement coverage as a measure of the extent to which the code has been tested, without implying other types of coverage or testing goals.

NEW QUESTION # 21

Which of the following statements about static testing and dynamic testing is true?

- A. Unlike dynamic testing, which focuses on detecting potential defects, static testing focuses on detecting failures which may be due to actual defects
- **B. Both static testing and dynamic testing can be used to highlight issues associated with non-functional characteristics**
- C. Unlike dynamic testing, which can be also performed manually, static testing cannot be performed without specialized tools
- D. Static testing is usually much less cost-effective than dynamic testing

Answer: B

Explanation:

This answer is correct because static testing and dynamic testing are both types of testing that can be used to highlight issues associated with non-functional characteristics, such as usability, performance, security, reliability, etc. Static testing is a type of testing that involves the analysis of software work products, such as requirements, design, code, or test cases, without executing them. Dynamic testing is a type of testing that involves the execution of software work products, such as code or test cases, using inputs and verifying outputs. Both static testing and dynamic testing can be applied to different test levels and test types, and can use different test techniques and tools, to evaluate the non-functional characteristics of the software product. Reference: ISTQB Glossary of Testing Terms v4.0, ISTQB Foundation Level Syllabus v4.0, Section 2.2.1.1, Section 2.2.1.2

NEW QUESTION # 22

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

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

Answer: C

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.

NEW QUESTION # 23

Which of the following statements about branch coverage is true?

- A. If full branch coverage has been achieved, then all combinations of conditions in a decision table have surely been exercised
- B. The minimum number of test cases needed to achieve full branch coverage, is usually lower than that needed to achieve full statement coverage
- C. Exercising at least one of the decision outcomes for all decisions within the code, ensures achieving full branch coverage
- D. If full branch coverage has been achieved, then all unconditional branches within the code have surely been exercised

Answer: C

Explanation:

Exercising at least one of the decision outcomes for all decisions within the code, ensures achieving full branch coverage, which is a test coverage criterion that requires that all branches in the control flow of the code are executed at least once by the test cases. A branch is a basic block of code that has a single entry point and a single exit point, and a decision is a point in the code where the control flow can take more than one direction, such as an if-then-else statement, a switch-case statement, a loop statement, etc. The decision outcomes are the possible paths that can be taken from a decision, such as the then branch or the else branch, the case branch or the default branch, the loop body or the loop exit, etc. The other statements are false, because:

* The minimum number of test cases needed to achieve full branch coverage, is usually higher than that needed to achieve full statement coverage, which is a test coverage criterion that requires that all executable statements in the code are executed at least once by the test cases. This is because branch coverage is a stronger criterion than statement coverage, as it implies statement coverage, but not vice versa. For example, a single test case can achieve full statement coverage for an if-then-else statement, but two test cases are needed to achieve full branch coverage, as both the then branch and the else branch need to be exercised.

* If full branch coverage has been achieved, then all unconditional branches within the code have not necessarily been exercised, as unconditional branches are branches that do not depend on any decision, and are always executed, such as a goto statement, a break statement, a return statement, etc.

Unconditional branches are not part of the branch coverage criterion, as they do not represent different paths in the control flow of the code. However, they are part of the statement coverage criterion, as they are executable statements in the code.

* If full branch coverage has been achieved, then all combinations of conditions in a decision table have not necessarily been exercised, as a decision table is a test design technique that represents the logical relationships between multiple conditions and their corresponding actions, in a tabular format. A decision table can have more combinations of conditions than the number of decision outcomes in the code, as each condition can have two or more possible values, such as true or false, yes or no, etc. For example, a decision table with four conditions can have 16 combinations of conditions, but the corresponding code may have only two decision outcomes, such as pass or fail. To exercise all combinations of conditions in a decision table, a stronger test coverage criterion is needed, such as condition combination coverage, which requires that all possible combinations of condition outcomes in the code are executed at least once by the test cases. References: ISTQB Certified Tester Foundation Level (CTFL) v4.0 sources and documents:

* ISTQB Certified Tester Foundation Level Syllabus v4.0, Chapter 2.3.1, Test Coverage Criteria Based on the Structure of the Software

* ISTQB Glossary of Testing Terms v4.0, Branch Coverage, Statement Coverage, Branch, Decision, Decision Outcome, Unconditional Branch, Decision Table, Condition Combination Coverage

NEW QUESTION # 24

A new web app aims at offering a rich user experience. As a functional tester, you have run some functional tests to verify that, before releasing the app, such app works correctly on several mobile devices, all of which are listed as supported devices within the requirements specification. These tests were performed on stable and isolated test environments where you were the only user interacting with the application. All tests passed, but in some of those tests you observed the following issue: on some mobile devices only, the response time for two web pages containing images was extremely slow. Based only on the given information, which of the following recommendation would you follow?

- A. You should not open any defect report as the problem is most likely due to poor hardware equipment on the devices where you observed the issue
- **B. You should open a defect report providing detailed information on which devices and by running which tests you observed the issue**
- C. You should not open any defect report and inform the test manager that the devices on which you observed the issue should no longer be supported so that they will be removed from the requirements specification
- D. The issue is related to performance efficiency, not functionality. Thus, as a functional tester, you should not open any defect report as all the functional tests passed

Answer: B

Explanation:

As a functional tester, you should open a defect report providing detailed information on which devices and by running which tests you observed the issue. A defect report is a document that records the occurrence, nature, and status of a defect detected during testing, and provides information for further investigation and resolution. A defect report should include relevant information such as the defect summary, the defect description, the defect severity, the defect priority, the defect status, the defect origin, the defect category, the defect reproduction steps, the defect screenshots, the defect attachments, etc. Opening a defect report is a good practice for any tester who finds a defect in the software system, regardless of the type or level of testing performed. The other options are not recommended, because:

The issue is related to performance efficiency, not functionality, but that does not mean that as a functional tester, you should not open any defect report as all the functional tests passed. Performance efficiency is a quality characteristic that measures how well the software system performs its functions under stated conditions, such as the response time, the resource utilization, the throughput, etc. Performance efficiency is an important aspect of the user experience, especially for web applications that run on different devices and networks. Even if the functional tests passed, meaning that the software system met the functional requirements, the performance issue observed on some devices could still affect the user satisfaction, the usability, the reliability, and the security of the software system. Therefore, as a functional tester, you have the responsibility to report the performance issue as a defect, and provide as much information as possible to help the developers or the performance testers to investigate and resolve it.

NEW QUESTION # 25

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