ISTQB CTFL-Foundation Practice Questions

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Question 1

Question Type: MultipleChoice

Boundary value testing:

Options:

A- Is the same as equivalence partitioning tests
B- Test boundary conditions on, below and above the edges of input and output equivalence classes
C- Tests combinations of input circumstances
D- Is used in white box testing strategy

Answer:

B

Explanation:

Boundary value testing focuses on testing at the boundaries between partitions. It tests conditions on, below, and above the edges of input and output equivalence classes to identify defects that occur at the boundaries. This technique is different from equivalence partitioning, which divides input data into partitions but does not specifically target boundary conditions.
Reference: ISTQB CTFL Syllabus V4.0, Section 4.2.1.

Question 2

Question Type: MultipleChoice

Which of the following are aids to good communication, and which hinder it?

i. Try to understand how the other person feels.

ii. Communicate personal feelings, concentrating upon individuals.

iii. Confirm the other person has understood what you have said and vice versa.

iv. Emphasize the common goal of better quality.

v. Each discussion is a battle to be won.

Options:

A- (i), (ii) and (iii) aid, (iv) and (v) hinder.
B- (iii), (iv) and (v) aid, (i) and (ii) hinder.
C- (i), (iii) and (iv) aid, (ii) and (v) hinder.
D- (ii), (iii) and (iv) aid, (i) and (v) hinder.

Answer:

C

Explanation:

Good communication is aided by trying to understand how the other person feels (i), confirming mutual understanding (iii), and emphasizing common goals such as better quality (iv). These actions foster a collaborative environment and ensure that all parties are on the same page. On the other hand, communicating personal feelings concentrating upon individuals (ii) and viewing each discussion as a battle to be won (v) hinder communication because they create a confrontational and subjective atmosphere. Reference: ISTQB CTFL Syllabus V4.0, Section 5.1.2 .

Question 3

Question Type: MultipleChoice

Testing effort can depend on a number of factors, which one of following is MOST likely to impact the amount of effort required?

Options:

A- The predicted number of defects and the amount of rework required
B- The ratio of developers to testers in the project team
C- The planned use of a project management tool to schedule tasks
D- The responsibilities for testers and developers being clearly defined

Answer:

A

Explanation:

The amount of testing effort is highly influenced by the predicted number of defects and the subsequent amount of rework required. If a high number of defects are expected, more effort will be needed to identify, document, and retest the defects after they are fixed. This impacts the overall testing workload significantly compared to other factors such as the ratio of developers to testers, which affects team dynamics but not the core testing effort.

Question 4

Question Type: MultipleChoice

Consider the following pseudo code:

1. Begin

2. Input X, Y

3. If X > Y

4. __Print (X, 'is greater than', Y)

5. Else

6. __Print (Y, is greater than or equal to', X)

7. EndIf

8. End

What is the minimum number of test cases required to guarantee both 100% statement coverage and 100% decision coverage?

Options:

A- Statement coverage = 3, Decision coverage = 3
B- Statement coverage = 2, Decision coverage = 2
C- Statement coverage = 1, Decision coverage = 2
D- Statement coverage = 2, Decision coverage = 1

Answer:

B

Explanation:

To achieve 100% statement coverage and 100% decision coverage for the provided pseudo code, at least two test cases are required. The first test case should cover the scenario where X > Y, which will execute the statements in the 'if' branch. The second test case should cover the scenario where X Y, which will execute the statements in the 'else' branch. This ensures that both the true and false branches of the decision are tested, and all statements in the code are executed at least once.

Question 5

Question Type: MultipleChoice

The cost of fixing a fault:

Options:

A- Is not important
B- Increases as we move the product towards live use
C- Decreases as we move the product towards live use
D- Is more expensive if found in requirements than functional design
E- Can never be determined

Answer:

B

Explanation:

The cost of fixing a fault increases as the software progresses through the development lifecycle. Fixing defects identified early in the requirements or design phases is less expensive compared to fixing those found later in testing or after the software has been deployed. This is due to the larger impact on the system, more extensive rework required, and potential disruptions to the user experience in later stages.

Question 6

Question Type: MultipleChoice

Which of the following is MOST important in the selection of a test approach?

Options:

A- Availability of tools to support the proposed techniques.
B- The budget allowed for training in proposed techniques.
C- Available skills and experience in the proposed techniques.
D- The willingness of the test team to learn new techniques.

Answer:

C

Explanation:

The selection of a test approach is crucial for the success of the testing process. According to the ISTQB CTFL Syllabus, version 4.0, one of the most important factors in selecting a test approach is the availability of skills and experience in the proposed techniques. This ensures that the team can effectively implement and execute the testing strategies.

While other factors like the availability of tools, budget for training, and willingness to learn new techniques are important, the skills and experience of the team are critical to ensure that the chosen test approach can be executed efficiently and effectively. Without the necessary skills and experience, even the best tools and techniques may not be utilized to their full potential.

Question 7

Question Type: MultipleChoice

A garden irrigation system allows the user to specify 2 inputs:

1. Frequency - The number of times the system should be automatically switched on per day; minimum once per day, maximum 5 times

2. Duration - The duration of operation, in whole minutes, each time it is switched on; ranging from 1 to 60

Applying 2-value boundary value analysis which of the following options has the correct test set of valid and invalid boundary values?

Options:

A- Frequency 1, 5; Duration 1, 60
B- Frequency 0, 1, 5, 6; Duration 59 seconds, 1 minute, 60 minutes, 60 minutes 1 second

C- Frequency 0, 1, 5, 6; Duration 0, 1, 30, 60, 61
D- Frequency 0, 1, 2, 5, 6; Duration 0, 1, 30, 60, 61

Answer:

C

Explanation:

Boundary value analysis involves testing at the boundaries between partitions. For the Frequency input, valid boundaries are 1 and 5, while invalid boundaries are 0 and 6. For the Duration input, valid boundaries are 1 and 60 minutes, while invalid boundaries are 0 and 61 minutes. Therefore, Option C includes the correct set of valid and invalid boundary values for both inputs.

Question 8

Question Type: MultipleChoice

Test script TransVal 3.1 tests transaction validation via screen TRN 003B. According to the specification (PID ver 1.3 10b iv) the validation screen should not accept future dated transactions. Test script TransVal 3.1 passes. Test script eod 1.4 tests end of day processing and is run after the execution of TransVal 3.1 using data entered during that test

Which option best is the BEST detail on an incident report? [K3]

Options:

A- Title. End of Day failure.. Reproducible. Yes. Description. Script eod 1.4 fails when the first transaction of the day is a future dated transaction. Screen shot of the failure attached.
B- Title. Transaction input screen validation..Reproducible. Yes. Description. Script eod 1..4 fails . Screen shot of the failure attached. Validation of transaction entryon screen TRN-003B should not allow future dated transactions -- see PID ver 1.3 para 10b iv.
C- Title. Screen TRN-003B validation of transaction date.. Reproducible. No. Description. When a future dated transaction is processed by the end of day process, a failure can occur. This does not always happen. Screen shot of the failure attached.
D- Title. Screen TRN-003B validation of transaction date. Reproducible. Yes. Description. Script eod 1.4 fails when the first transaction of the day is a future dated transaction. Screen shot of the failure attached. Validation of transaction entry on screen TRN-003B should not allow future dated transactions -- see PID ver 1.3 para 10b iv.

Answer:

D

Explanation:

An effective incident report should provide a clear and detailed description of the issue, including the title, reproducibility, a detailed description of the failure, and any relevant references to specifications. This helps in accurately identifying, reproducing, and resolving the defect. In this case, including the specific reference to the PID and a screenshot helps provide all necessary information for resolving the issue.

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