



Free Questions for CTFL-AuT by vceexamstest

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Question 1

Question Type: MultipleChoice

You are working as a .module tester* (syn. unit tester, component tester) in an automotive project for the development of a control unit for an electric window. During white-box test design, you come across atomic requirements: B1 AND (B2 OR B3). The task for you is to design test cases according to the principle of the modified condition/decision testing (MOOC). You have already designed three test cases:

- 1) B1 = TRUE, B2 = TRUE, B3 = FALSE
- 2) B1 = TRUE, B2 = FALSE, B3 = TRUE
- 3) B1 = FALSE, B2 = TRUE, B3 = FALSE

Which of the following test cases is necessary to achieve 100% modified condition/decision coverage?

Options:

- A-** B1 = FALSE, B2 = FALSE, B3 = TRUE
- B-** B1 = FALSE, B2 = FALSE, B3 = FALSE
- C-** B1 = TRUE, B2 = TRUE, B3 = TRUE
- D-** B1 = TRUE, B2 = FALSE, B3 = FALSE

Answer:

A

Question 2

Question Type: MultipleChoice

ISO 26262 recognizes several context factors which influence the selection of testing techniques. Which statement is correct? Please choose the BEST POSSIBLE answer.

Options:

- A-** An testing techniques are always applied to one test basis. The specific techniques, e.g. equivalence partition analysis, however, can always be applied.
- B-** ISO 26262 recommends specific testing techniques depending on the ASH level. Furthermore, the current state of technology must be considered
- C-** The risk assessment provides insights regarding the risks, whose causes will then be tested Intensively (independent of the testing technique).
- D-** For the selection and the applicability of the test techniques, the test basis is important, but not fie test level.

Answer:

B

Question 3

Question Type: MultipleChoice

Which statement characterizes back-to-back testing?

Options:

- A-** Back-to-back testing is a variation of pair programming in which the testers should sit back to back to be able to work as independently as possible from each other.
- B-** Back-to-back testing compares test objects with mainly overlapping requirements to recognize the results of requirement change.
- C-** Back-to-back testing compares test objects which are based on the same requirements.
- D-** Back-to-back testing compares different execution environments of the same test object

Answer:

C

Question 4

Question Type: MultipleChoice

Which statement regarding requirements-based testing is true?

Options:

- A- Requirements-based testing can be combined with other test practices or testing techniques.
- B- Requirements-based testing can solve issues like complete requirements
- C- Only extensive and detailed requirements can be covered completely by the tester.
- D- Requirements-based testing is a testing technique

Answer:

D

Question 5

Question Type: MultipleChoice

Your company produces electric windows and corresponding control units. The newest control unit for electric windows has repeatedly been problematic, which you think result from issues in the requirements, in particular, you noticed the following requirements in your first review.

Which of the following requirements for the system test violates at least one of the quality criteria of the ISO/IEC/IEEE 29148:2011 ?

ID; 12. When the central lock is activated, then all windows are automatically closed.

ID; 37 Given: the ignition is activated. When the button for a window is pressed down, then the window moves down.

ID; 85: Given: the window moves up. When the window encounters resistance, then the window driving motor stops.

ID; 142; Given: a door is open When the button for a window is pressed then the message M-85 is sent to the control unit

Options:

- A- The requirement 85 is not atomic
- B- The requirement 37 is Inconsistent on system level.
- C- The requirement 12 is ambiguous.
- D- The requirement 142 is not verifiable on system level

Answer:

D

Question 6

Question Type: MultipleChoice

Which statement regarding the coding standard MISRA-C:2012 is true?

Options:

- A-** MISRA-C defines rules and guidelines. Rules are verifiable by static analysis tools and are always required.
- B-** MISRA-C defines rules and guidelines that are supposed to help avoid anomalies in object-oriented developed software (e.g. in C++)
- C-** MISRA-C defines rules that include among others that the source code should not include nested comments.
- D-** A typical rule in MISRA-C is that the developer has documented the implemented behavior when.

Answer:

B

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