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Question 1

Question Type: MultipleChoice

Which statement regarding coding standards is most true?

Options:

- A- Coding standards should increase the maintainability of the source code.
- B- Coding standards should educate the programmer
- C- Coding standards should increase the efficiency of the programmer
- D- Coding standards should increase the efficiency of the source code.

Answer:

C

Question 2

Question Type: MultipleChoice

Which statement regarding the MiL design and use is true?

Options:

- A-** The objective of using a Hi test environment is mainly to find non-functional errors in the model
- B-** The HiL test environment is as complex as a MiL or SiL test environment with regards to the complexity of its parts
- C-** Typically, the test for the coned behavior of a control unit's functions is performed on a component Hi.
- D-** In contrast to the MiL and Si test environments, pausing or stopping is possible in a HiL test environment thanks to a real the capable computer

Answer:

A

Question 3

Question Type: MultipleChoice

Which statement regarding the operating conditions and comparison of test environments is true?

Options:

- A- To test in a MIL test environment, a full system specification is necessary.
- B- As tests for MIL and SIL take place closer to the test object, the test basis must have a higher degree of detail than in HIL.
- C- The costs for debugging are higher for a Si test environment than for a MiL test environment.
- D- The proximity to reality in a MiL test environment is higher than in a SI test environment

Answer:

A

Question 4

Question Type: MultipleChoice

Which of the following options describes a combination of typical parts of a HiL environment?

Options:

- A- Breakout box, Software-Compiler, real parts

- B-** Test case simulator, rest bus simulation, power supply
- C-** Electric error simulation, signal processing, processor simulation
- D-** Power supply, real time capable computer electric error simulation

Answer:

A

Question 5

Question Type: MultipleChoice

Which statement regarding the design of a MIL test environment is TRUE?

Options:

- A-** To execute the tests, the tester needs a computer and the correspond[^]) simulation software, including the environmental model.
- B-** Interface and integration tests are two test types or test levels that can only be applied in a Mil test environment.
- C-** In the MIL test environments, the simulation time runs in real time because the software is running on real hardware.
- D-** The test environment includes a real time capable computer, which can capture all relevant signals in time

Answer:

B

Question 6

Question Type: MultipleChoice

Which example describes a typical application of a closed-loop system?

Options:

- A-** Activating the hazard warning lights is to be tested To do so. the flashing lights are monitored and the flashing frequency is measured and assessed.
- B-** The setting of an error memory entry in the motor control unit Is to be tested To do so, the motor temperature is Increased above the critical limit and afterwards, the subsequent error memory entry will be read and assessed.
- C-** The correct reaction of the windscreen wiper is to be tested To do so. the ram sensor Is activated by water on the screen and the windscreen wiping activities are monitored.
- D-** A cruise control is to be tested by reaching me target speed In a given time and holding this speed despite outside disturbances. Different driving scenarios are simulated for this.

Answer:

C

Question 7

Question Type: MultipleChoice

Which statement about databases is INCORRECT?

Options:

- A- Databases describe the signals of a communication channel.
- B- Databases define the implementation of the communication protocol
- C- Databases include information about input and output signals.
- D- Databases can be described using ASAM-standards

Answer:

A

Question 8

Question Type: MultipleChoice

Which of the following options is NOT a general part of a test environment?

Options:

- A- Test plan
- B- Laboratory
- C- Real-time PC
- D- Communication device

Answer:

D

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