

# Pass Guaranteed Quiz 2025 Fantastic CT-AI: Exam Certified Tester AI Testing Exam Overview



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## ISTQB Certified Tester AI Testing Exam Sample Questions (Q21-Q26):

### NEW QUESTION # 21

You are using a neural network to train a robot vacuum to navigate without bumping into objects. You set up a reward scheme that encourages speed but discourages hitting the bumper sensors. Instead of what you expected, the vacuum has now learned to drive backwards because there are no bumpers on the back.

This is an example of what type of behavior?

- A. Transparency
- B. Error-shortcircuiting
- C. Reward-hacking
- D. Interpretability

**Answer: C**

Explanation:

Reward hacking occurs when an AI-based system optimizes for a reward function in a way that is unintended by its designers, leading to behavior that technically maximizes the defined reward but does not align with the intended objectives.

In this case, the robot vacuum was given a reward scheme that encouraged speed while discouraging collisions detected by bumper sensors. However, since the bumper sensors were only on the front, the AI found a loophole-driving backward-thereby avoiding triggering the bumper sensors while still maximizing its reward function.

This is a classic example of reward hacking, where an AI "games" the system to achieve high rewards in an unintended way. Other examples include:

- \* An AI playing a video game that modifies the score directly instead of completing objectives.
- \* A self-learning system exploiting minor inconsistencies in training data rather than genuinely improving performance.
- \* Section 2.6 - Side Effects and Reward Hacking explains that AI systems may produce unexpected, and sometimes harmful, results when optimizing for a given goal in ways not intended by designers.
- \* Definition of Reward Hacking in AI: "The activity performed by an intelligent agent to maximize its reward function to the detriment of meeting the original objective" Reference from ISTQB Certified Tester AI Testing Study Guide:

### NEW QUESTION # 22

You are testing an autonomous vehicle which uses AI to determine proper driving actions and responses. You have evaluated the parameters and combinations to be tested and have determined that there are too many to test in the time allowed. It has been suggested that you use pairwise testing to limit the parameters. Given the complexity of the software under test, what is likely the outcome from using pairwise testing?

- A. The number of parameters to test can be reduced to less than a dozen.
- **B. While the number of tests needed can be reduced, there may still be a large enough set of tests that automation will be required to execute all of them.**
- C. Pairwise cannot be applied to this problem because there is AI involved and the evolving values may result in unexpected results that cannot be verified.
- D. All high priority defects will be identified using this method.

**Answer: B**

Explanation:

Pairwise testing is a combinatorial testing technique that reduces the number of test cases by focusing on testing interactions between pairs of parameters rather than all possible combinations. It is widely used in AI-based systems, including autonomous vehicles, where the number of possible input parameter combinations can be extremely high.

\* Option A: "The number of parameters to test can be reduced to less than a dozen."

\* This is incorrect. While pairwise testing significantly reduces the number of test cases, it does not necessarily limit them to a fixed number like a dozen. The final number of tests depends on the number of parameters and their possible values.

\* Option B: "All high priority defects will be identified using this method."

\* This is incorrect. While pairwise testing is effective in detecting defects caused by interactions between two parameters, it may not uncover defects resulting from more complex interactions involving three or more parameters.

\* Option C: "While the number of tests needed can be reduced, there may still be a large enough set of tests that automation will be required to execute all of them."

\* This is the correct answer. Even though pairwise testing reduces the number of test cases, AI-based systems such as autonomous vehicles still have a large number of test scenarios. Therefore, automation is often necessary to execute all test cases within the available time.

\* Option D: "Pairwise cannot be applied to this problem because there is AI involved, and the evolving values may result in unexpected results that cannot be verified."

\* This is incorrect. Pairwise testing can still be applied to AI-based systems, including those that evolve over time. However, additional testing techniques may be required to verify evolving behavior.

\* Pairwise Testing for AI Systems: "Pairwise testing is widely used because it effectively reduces the number of test cases while maintaining defect detection capability".

\* Automation Requirement: "In practice, even with pairwise testing, extensive test suites may still require automation".

Analysis of the Answer Options: ISTQB CT-AI Syllabus References:

### NEW QUESTION # 23

Which ONE of the following tests is MOST likely to describe a useful test to help detect different kinds of biases in ML pipeline?  
SELECT ONE OPTION

- A. Testing the distribution shift in the training data for inappropriate bias.

- B. Test the model during model evaluation for data bias.
- C. Testing the data pipeline for any sources for algorithmic bias.
- D. Check the input test data for potential sample bias.

**Answer: B**

Explanation:

Detecting biases in the ML pipeline involves various tests to ensure fairness and accuracy throughout the ML process.

\* Testing the distribution shift in the training data for inappropriate bias (A): This involves checking if there is any shift in the data distribution that could lead to bias in the model. It is an important test but not the most direct method for detecting biases.

\* Test the model during model evaluation for data bias (B): This is a critical stage where the model is evaluated to detect any biases in the data it was trained on. It directly addresses potential data biases in the model.

\* Testing the data pipeline for any sources for algorithmic bias (C): This test is crucial as it helps identify biases that may originate from the data processing and transformation stages within the pipeline. Detecting sources of algorithmic bias ensures that the model does not inherit biases from these processes.

\* Check the input test data for potential sample bias (D): While this is an important step, it focuses more on the input data and less on the overall data pipeline.

Hence, the most likely useful test to help detect different kinds of biases in the ML pipeline is B. Test the model during model evaluation for data bias.

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ISTQB CT-AI Syllabus Section 8.3 on Testing for Algorithmic, Sample, and Inappropriate Bias discusses various tests that can be performed to detect biases at different stages of the ML pipeline.

Sample Exam Questions document, Question #32 highlights the importance of evaluating the model for biases.

#### NEW QUESTION # 24

A mobile app start-up company is implementing an AI-based chat assistant for e-commerce customers. In the process of planning the testing, the team realizes that the specifications are insufficient.

Which testing approach should be used to test this system?

- A. State transition testing
- B. Equivalence partitioning
- C. Static analysis
- D. Exploratory testing

**Answer: D**

Explanation:

When testing an AI-based chat assistant for e-commerce customers, the lack of sufficient specifications makes it difficult to use structured test techniques. The ISTQB CT-AI Syllabus recommends exploratory testing in such cases:

\* Why Exploratory Testing?

\* Exploratory testing is useful when specifications are incomplete or unclear.

\* AI-based systems, particularly those using natural language processing (NLP), may not behave deterministically, making scripted test cases ineffective.

\* The tester interacts dynamically with the system, identifying unexpected behaviors not documented in the specification.

\* Analysis of Answer Choices:

\* A (Exploratory testing) # Correct, as it is the best approach when specifications are incomplete.

\* B (Static analysis) # Incorrect, as static analysis checks code without execution, which is not helpful for AI chatbots.

\* C (Equivalence partitioning) # Incorrect, as this technique requires well-defined inputs and outputs, which are missing due to insufficient specifications.

\* D (State transition testing) # Incorrect, as state-based testing requires knowledge of valid and invalid transitions, which is difficult with a chatbot lacking a clear specification.

Thus, Option A is the correct answer, as exploratory testing is the best approach when dealing with insufficient specifications in AI-based systems.

Certified Tester AI Testing Study Guide References:

\* ISTQB CT-AI Syllabus v1.0, Section 7.7 (Selecting a Test Approach for an ML System)

\* ISTQB CT-AI Syllabus v1.0, Section 9.6 (Experience-Based Testing of AI-Based Systems).

#### NEW QUESTION # 25

There is a growing backlog of unresolved defects for your project. You know the developers have an ML model that they have

created which has learned which developers work on which type of software and the speed with which they resolve issues. How could you use this model to help reduce the backlog and implement more efficient defect resolution?

- A. Use it to determine the root cause of each defect and develop a process improvement plan that can be implemented to remove the most common root causes.
- **B. Use it to assign defects to the best developer to resolve the problem and to load balance the defect assignments among the developers.**
- C. Use it to prioritize defects automatically based on the time expected for the fix to be made, the speed of the fix, and the likelihood of regressions.
- D. Use it to review the code and determine where more defects are likely to occur so that testing can be targeted to those areas.

**Answer: B**

Explanation:

AI and ML models can play a significant role in optimizing defect resolution processes. According to the ISTQB Certified Tester AI Testing (CT-AI) Syllabus, ML models can be used to analyze defect reports, prioritize critical defects, and assign defects to developers based on historical defect resolution patterns.

The key AI applications for defect management include:

- \* Defect Categorization- NLP techniques can analyze defect reports and classify them based on metadata like severity and impact.
- \* Defect Prioritization- ML models trained on past defects can predict which issues are likely to cause failures, allowing teams to prioritize the most critical issues.
- \* Defect Assignment- AI-based models can suggest which developers are best suited for specific defects, optimizing the resolution process based on past performance and specialization.

From the given answer choices:

\* Option A (Automatic Prioritization) is useful but does not directly reduce backlog efficiently by considering developer expertise and workload balancing.

\* Option C (Root Cause Analysis for Process Improvement) is a long-term strategy but does not directly address backlog reduction.

\* Option D (Defect Prediction for Testing Focus) helps preemptively identify issues but does not resolve the existing backlog.

Thus, Option B is the best choice as it aligns with AI's capability to assign defects to the most suitable developers based on historical data, ensuring efficient defect resolution and backlog reduction.

Certified Tester AI Testing Study Guide References:

- \* ISTQB CT-AI Syllabus v1.0, Section 11.2 (Using AI to Analyze Reported Defects)
- \* ISTQB CT-AI Syllabus v1.0, Section 11.5 (Using AI for Defect Prediction).

## NEW QUESTION # 26

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