

Valid Real CT-AI Exam - CT-AI Exam Actual Questions



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After taking a bird's eye view of applicants' issues, Itcerttest has decided to provide them with the real CT-AI Questions. These ISTQB CT-AI dumps pdf is according to the new and updated syllabus so they can prepare for Certified Tester AI Testing Exam (CT-AI) certification anywhere, anytime, with ease. A team of professionals has made the product of Itcerttest after much hard work with their complete potential so the candidates can prepare for Certified Tester AI Testing Exam (CT-AI) practice test in a short time.

ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Testing AI-Based Systems Overview: In this section, focus is given to how system specifications for AI-based systems can create challenges in testing and explain automation bias and how this affects testing.
Topic 2	<ul style="list-style-type: none">ML Functional Performance Metrics: In this section, the topics covered include how to calculate the ML functional performance metrics from a given set of confusion matrices.
Topic 3	<ul style="list-style-type: none">Quality Characteristics for AI-Based Systems: This section covers topics covered how to explain the importance of flexibility and adaptability as characteristics of AI-based systems and describes the vitality of managing evolution for AI-based systems. It also covers how to recall the characteristics that make it difficult to use AI-based systems in safety-related applications.
Topic 4	<ul style="list-style-type: none">Neural Networks and Testing: This section of the exam covers defining the structure and function of a neural network including a DNN and the different coverage measures for neural networks.
Topic 5	<ul style="list-style-type: none">Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.

Topic 6	<ul style="list-style-type: none"> • Introduction to AI: This exam section covers topics such as the AI effect and how it influences the definition of AI. It covers how to distinguish between narrow AI, general AI, and super AI; moreover, the topics covered include describing how standards apply to AI-based systems.
Topic 7	<ul style="list-style-type: none"> • Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 8	<ul style="list-style-type: none"> • Testing AI-Specific Quality Characteristics: In this section, the topics covered are about the challenges in testing created by the self-learning of AI-based systems.
Topic 9	<ul style="list-style-type: none"> • Machine Learning ML: This section includes the classification and regression as part of supervised learning, explaining the factors involved in the selection of ML algorithms, and demonstrating underfitting and overfitting.
Topic 10	<ul style="list-style-type: none"> • systems from those required for conventional systems.

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CT-AI Exam Actual Questions & Valid CT-AI Test Sims

Overall we can say that Certified Tester AI Testing Exam; CT-AI certification can provide you with several benefits that can assist you to advance your career and achieve your professional goals. Are you ready to gain all these personal and professional benefits? Looking for a sample, is smart and quick for ISTQB CT-AI Exam Dumps preparation? If your answer is yes then you do not need to go anywhere, just download Icerttest CT-AI Questions and start ISTQB CT-AI exam preparation with complete peace of mind and satisfaction.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q116-Q121):

NEW QUESTION # 116

Which statement about using AI to analyze reported defects is MOST correct?
Choose ONE option (1 out of 4)

- A. ML models can identify categories for a reported defect during assignment.
- B. ML models trained with critical defect tickets can identify defects that cause serious consequences.
- C. ML models identify developers who should handle a defect based on ticket content.
- D. ML models can support duplicate defect identification when checking defect criticality.

Answer: A

Explanation:

The ISTQB CT-AI syllabus (Section 5.3 - AI Support for Defect Analysis) explains that AI can categorize defect reports using natural language processing or classification models. Categorization helps route defects efficiently and determine which areas of the system are affected. Thus, Option C is correct: AI can identify defect categories, supporting assignment and triage. Option A is incorrect because ML cannot infer severity or consequence without domain-specific risk modeling. Option B inaccurately ties duplicate detection to criticality; the syllabus separates duplicate detection from severity analysis. Option D is incorrect because AI may assist in routing defects using categories, but the syllabus does not claim AI identifies specific developers. Thus, Option C is the syllabus-accurate statement.

NEW QUESTION # 117

Which of the following is a problem with AI-generated test cases that are generated from the requirements?

- A. They are usually missing the expected results, so verification is difficult or must resort to only detecting significant failures.
- B. They are defect prone because they are unable to detect nuances in the requirements.
- C. They make debugging more complicated because the number of steps is usually high in order to induce the target failure.
- D. They are slow and will usually not be able to execute in the time allowed.

Answer: A

Explanation:

AI-generated test cases are often created using machine learning (ML) models or heuristic algorithms. While these can be effective in generating large numbers of test cases quickly, they often suffer from the "test oracle problem."

* **Test Oracle Problem:** A test oracle is the mechanism used to determine the expected output of a test case. AI-generated test cases often lack expected results because AI-based tools do not inherently understand what the correct output should be.

* **Difficulty in Verification:** Without expected results, verifying test cases becomes challenging. Testers must rely on heuristics, anomaly detection, or significant failures, rather than traditional pass/fail conditions.

* **A (Slow Execution Time):** AI-generated tests are typically automated and designed for efficiency. They are not inherently slow and often execute faster than manually written tests.

* **B (Defect-Prone Due to Nuance Issues):** While AI-generated tests may struggle with some complexities in requirements, they primarily lack expected results, rather than failing due to an inability to detect nuances.

* **C (Complicated Debugging Due to Many Steps):** AI-generated tests reduce debugging complexity by limiting the number of steps required to reproduce failures.

* ISTQB CT-AI Syllabus (Section 11.3: Using AI for Test Case Generation)

* "AI-generated test cases often lack expected results, making it difficult to verify correctness without a test oracle."

* "Verification often relies on detecting significant failures rather than having predefined expected results."

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: Since AI-generated test cases frequently lack expected results, verification becomes difficult, requiring testers to focus on major failures rather than precise pass/fail conditions. Thus, the correct answer is D.

NEW QUESTION # 118

Which of the following aspects is a challenge when handling test data for an AI-based system?

- A. Video frame speed or aspect ratio
- B. Output data or intermediate data
- **C. Personal data or confidential data**
- D. Data frameworks or machine learning frameworks

Answer: C

Explanation:

The syllabus explicitly mentions challenges of handling personal data and ensuring privacy when testing AI-based systems:

"The management of personal data and sensitive data is often a concern during testing, as testing typically requires realistic data and it is difficult to fully anonymize data." (Reference: ISTQB CT-AI Syllabus v1.0, Section 7.3, page 52 of 99)

NEW QUESTION # 119

Which ONE of the following statements correctly describes the importance of flexibility for AI systems?

SELECT ONE OPTION

- A. AI systems require changing of operational environments; therefore, flexibility is required.
- **B. Flexible AI systems allow for easier modification of the system as a whole.**
- C. Self-learning systems are expected to deal with new situations without explicitly having to program for it.
- D. AI systems are inherently flexible.

Answer: B

Explanation:

Flexibility in AI systems is crucial for various reasons, particularly because it allows for easier modification and adaptation of the system as a whole.

* AI systems are inherently flexible (A): This statement is not correct. While some AI systems may be designed to be flexible, they are not inherently flexible by nature. Flexibility depends on the system's design and implementation.

* AI systems require changing operational environments; therefore, flexibility is required (B):

While it's true that AI systems may need to operate in changing environments, this statement does not directly address the importance of flexibility for the modification of the system.

* Flexible AI systems allow for easier modification of the system as a whole (C): This statement correctly describes the importance of flexibility. Being able to modify AI systems easily is critical for their maintenance, adaptation to new requirements, and improvement.

* Self-learning systems are expected to deal with new situations without explicitly having to program for it (D): This statement relates to the adaptability of self-learning systems rather than their overall flexibility for modification.

Hence, the correct answer is C. Flexible AI systems allow for easier modification of the system as a whole.

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ISTQB CT-AI Syllabus Section 2.1 on Flexibility and Adaptability discusses the importance of flexibility in AI systems and how it enables easier modification and adaptability to new situations.

Sample Exam Questions document, Question #30 highlights the importance of flexibility in AI systems.

NEW QUESTION # 120

Which statement about testing levels for AI-based systems is correct?

Choose ONE option (1 out of 4)

- A. Input data testing checks whether the inputs from the data pipeline are received by the model correctly and exchanged with all system components
- B. Acceptance testing checks non-functional requirements such as explainability
- C. ML model testing ensures that the relevant ML functional performance criteria are met
- D. If AI is offered as a service, system testing includes API tests of the service

Answer: C

Explanation:

Section 4.3 - Test Levels for AI Systems clearly defines ML model testing as the level at which testers evaluate whether an ML model fulfills its functional performance criteria, including accuracy, precision, recall, F1, robustness, stability, and fairness. Therefore, Option C is the correct and syllabus-aligned statement.

Option A is incorrect because input data testing focuses on validity and correctness of data entering the model, not interactions with all system components. Option B is incorrect: acceptance testing in the syllabus focuses primarily on business and stakeholder requirements, not specifically explainability. Explainability testing may occur at multiple levels depending on context. Option D is also incorrect because API testing belongs to integration testing, not system testing, even when AI is consumed as a service.

Thus, Option C is the only statement that precisely matches syllabus definitions.

NEW QUESTION # 121

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In modern society, whether to obtain CT-AI certification has become a standard to test the level of personal knowledge. Many well-known companies require the CT-AI certification at the time of recruitment. Whether you're a student or a white-collar worker, you're probably trying to get the certification in order to get more job opportunities or wages. If you are one of them, our CT-AI Exam Guide will effectively give you a leg up.

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