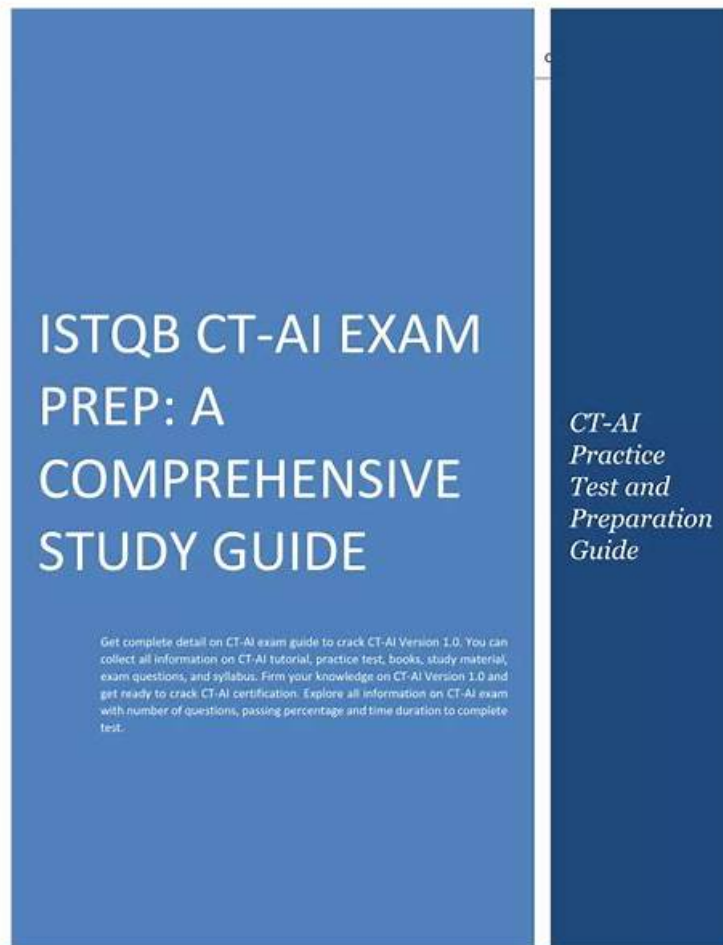# Pass-sure CT-AI Practice Materials - CT-AI Real Test Prep - PrepPDF

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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• ML: Data: This section of the exam covers explaining the activities and challenges related to data preparation. It also covers how to test datasets create an ML model and recognize how poor data quality can cause problems with the resultant ML model.

Topic 3	• Methods and Techniques for the Testing of AI-Based Systems: In this section, the focus is on explaining how the testing of ML systems can help prevent adversarial attacks and data poisoning.
Topic 4	• 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	• 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 6	• 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 7	• systems from those required for conventional systems.
Topic 8	• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 9	• 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 10	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12
When verifying that an autonomous AI-based system is acting appropriately, which of the following are MOST important to include?

- A. Test cases to verify that the system automatically confirms the correct classification of training data
- B. Test cases to detect the system prompting for unnecessary human intervention
- C. Test cases to verify that the system automatically suppresses invalid output data
- D. Test cases to detect the system appropriately automating its data input

Answer: B

Explanation:
The syllabus highlights that testing for unnecessary human intervention is a key focus for autonomous AI- based systems:
"For autonomous AI-based systems, testers must ensure that the system does not prompt for unnecessary human intervention, as this contradicts the autonomy concept." (Reference: ISTQB CT-AI Syllabus v1.0, Section 8.2, page 59 of 99)

NEW QUESTION # 13
Which of the following is a dataset issue that can be resolved using pre-processing?

- A. Insufficient data
- B. Numbers stored as strings

- C. Wanted outliers
- D. Invalid data

Answer: B

Explanation:
Pre-processing is an essential step in data preparation that ensures data is clean, formatted correctly, and structured for effective machine learning (ML) model training. One common issue that can be resolved during pre-processing is numbers stored as strings.
Explanation of Answer Choices:
* Option A: Insufficient data
* Incorrect. Pre-processing cannot resolve insufficient data. If data is lacking, techniques like data augmentation or external data collection are needed.
* Option B: Invalid data
* Incorrect. While pre-processing can identify and handle some forms of invalid data (e.g., missing values, duplicate entries), it does not resolve all invalid data issues. Some cases may require domain expertise to determine validity.
* Option C: Wanted outliers
* Incorrect. Pre-processing usually focuses on handling unwanted outliers. Wanted outliers may need to be preserved, which is more of a data selection decision rather than pre-processing.
* Option D: Numbers stored as strings
* Correct. One of the key functions of data pre-processing is data transformation, which includes converting incorrectly formatted data types, such as numbers stored as strings, into their correct numerical format.
ISTQB CT-AI Syllabus References:
* Data Pre-Processing Steps:"Transformation: The format of the given data is changed (e.g., breaking an address held as a string into its constituent parts, dropping a field holding a random identifier, converting categorical data into numerical data, changing image formats)".

NEW QUESTION # 14

A startup company has implemented a new facial recognition system for a banking application for mobile devices. The application is intended to learn at run-time on the device to determine if the user should be granted access. It also sends feedback over the Internet to the application developers. The application deployment resulted in continuous restarts of the mobile devices.
Which of the following is the most likely cause of the failure?

- A. Mobile operating systems cannot process machine learning algorithms
- B. The training, processing, and diagnostic generation are too computationally intensive for the mobile device hardware to handle
- C. The feedback requires a physical connection and cannot be sent over the Internet
- D. The size of the application is consuming too much of the phone's storage capacity

Answer: B

Explanation:
The syllabus highlights that on-device training and processing require considerable computational power, which may exceed the capabilities of some mobile devices:
"Self-learning and continuous learning systems require large amounts of computational power, which can impact system performance and stability if the hardware is not powerful enough." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.3, page 22 of 99)

NEW QUESTION # 15

Which statement about the property of the test environment for an AI-based system is correct?
Choose ONE option (1 out of 4)

- A. The test environment for an AI-based multi-agent system needs to act deterministically.
- B. The test environment for an autonomous AI system needs to perform both test design and execution autonomously.
- C. The test environment for a self-learning AI system needs to adapt to and learn from the test object.
- D. The test environment for an AI system may need to include tools that can explain the decisions of the test object.

Answer: D

Explanation:
The ISTQB CT-AI syllabus (Section 4.3 - Test Environments for AI Systems) describes that, unlike conventional software testing,

testing AI systems may require specialized tools for analyzing and explaining the decisions of ML models. This includes visualization tools, explainability frameworks, and diagnostic utilities to understand why the AI made a certain prediction. Since AI decisions may be non-transparent, the test environment must support explainability, making Option B correct.

Option A is incorrect: the syllabus does not state that an autonomous AI system requires an autonomous test environment. Option C is incorrect because test environments must not learn; they must remain stable to avoid unpredictable testing conditions. Option D is incorrect because multi-agent systems often involve stochastic interactions, and determinism is neither required nor realistic. Thus, Option B is the syllabus-accurate choice.

NEW QUESTION # 16

Which ONE of the following options represents a technology MOST TYPICALLY used to implement AI?
SELECT ONE OPTION

- A. Search engines
- B. Case control structures
- C. Procedural programming
- D. Genetic algorithms

Answer: D

Explanation:
* Technology Most Typically Used to Implement AI: Genetic algorithms are a well-known technique used in AI . They are inspired by the process of natural selection and are used to find approximate solutions to optimization and search problems. Unlike search engines, procedural programming, or case control structures, genetic algorithms are specifically designed for evolving solutions and are commonly employed in AI implementations.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Section 1.4 AI Technologies, which identifies different technologies used to implement AI.

NEW QUESTION # 17

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