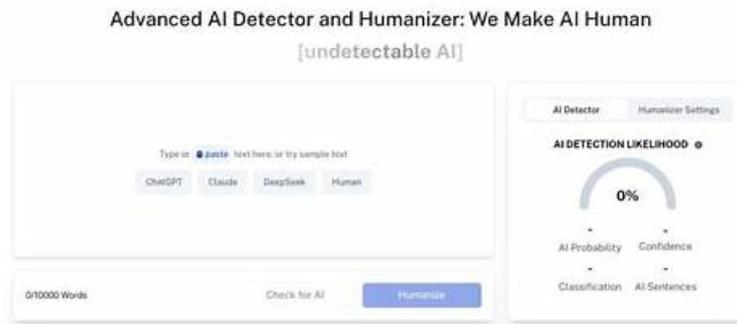


# CT-AI Reliable Real Test & Valid Dumps CT-AI Ppt



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## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>systems from those required for conventional systems.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>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.</li> </ul>

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## CT-AI exam materials & CT-AI practice questions & CT-AI study guide

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## ISTQB Certified Tester AI Testing Exam Sample Questions (Q93-Q98):

### NEW QUESTION # 93

Which statement describes factors related to test data that make testing AI-based systems difficult?

Choose ONE option (1 out of 4)

- **A. Creating and managing large amounts of test data can be difficult, especially when it needs to be representative**
- B. The input data must always be the same over time, especially in real-world systems
- C. Artificially generated data requires legal approval and must be sanitized and encrypted
- D. Using the same implementation for data acquisition by data scientists and testers prevents defect masking

**Answer: A**

Explanation:

Section 2.2 - Data Preparation and 4.1 - Challenges in Testing AI-Based Systems describe difficulties in obtaining and managing large, representative datasets. AI-based systems require realistic, diverse, and representative data reflecting real-world variations. The syllabus emphasizes that assembling such datasets is time-consuming, resource-intensive, and often constrained by availability, privacy, or domain complexity.

Option B directly corresponds to these documented challenges.

Option A is incorrect: using the same implementation risks defect masking, not preventing it; the syllabus warns against this practice.

Option C is incorrect because real-world data naturally evolves, and the syllabus notes that drift is normal; expecting stable input data contradicts operational reality. Option D is incorrect:

although data privacy is important, the syllabus does not claim that artificially generated data always requires legal approval, nor that sanitization/encryption is mandatory for synthetic data.

Thus, Option B accurately reflects syllabus-defined difficulties in producing representative test data.

### NEW QUESTION # 94

Which statement about AI-based test case generation is correct?

Choose ONE option (1 out of 4)

- A. A different test oracle is usually required for each AI-generated functional test case.
- **B. Expected results may not be available for AI-generated functional test cases.**
- C. An AI-based system under test must not be used as a functional test oracle.
- D. AI-generated functional test cases typically result in poor requirements coverage.

**Answer: B**

Explanation:

The ISTQB CT-AI syllabus indicates in Section 5.2 - AI for Testing that AI-generated test cases may not come with predefined expected results. This is because test-case generation methods—such as evolutionary algorithms, reinforcement learning, or clustering-based sampling—produce inputs, but the tester must still determine the correct outputs. Therefore, Option C is correct: expected results may not be available, especially when AI produces novel or previously unseen input combinations.

Option A is incorrect: AI-based test generation can improve coverage by exploring large input spaces. Option B is incorrect

because the need for oracles does not depend on whether the test case is AI-generated. Option D is incorrect because the syllabus allows using a model as an oracle in back-to-back testing, provided limitations are understood.

Therefore, Option C is the correct syllabus-aligned statement.

### NEW QUESTION # 95

Which of the following is correct regarding the layers of a deep neural network?

- **A. There is at least one internal hidden layer**
- B. The output layer is not connected with the other layers to maintain integrity
- C. There is only an input and output layer
- D. There must be a minimum of five total layers to be considered deep

**Answer: A**

Explanation:

A deep neural network (DNN) is a type of artificial neural network that consists of multiple layers between the input and output layers. The ISTQB Certified Tester AI Testing (CT-AI) Syllabus outlines the following characteristics of a DNN:

\* Structure of a Deep Neural Network:

\* A DNN comprises at least three types of layers:

\* Input layer: Receives the input data.

\* Hidden layers: Perform complex feature extraction and transformations.

\* Output layer: Produces the final prediction or classification.

\* Analysis of Answer Choices:

\* A (Only input and output layers) # Incorrect, as a DNN must have at least one hidden layer.

\* B (At least one internal hidden layer) # Correct, as a neural network must have hidden layers to be considered deep.

\* C (Minimum of five layers required) # Incorrect, as there is no strict definition that requires at least five layers.

\* D (Output layer is not connected to other layers) # Incorrect, as the output layer must be connected to the hidden layers.

Thus, Option B is the correct answer, as a deep neural network must have at least one hidden layer.

Certified Tester AI Testing Study Guide References:

\* ISTQB CT-AI Syllabus v1.0, Section 6.1 (Neural Networks and Deep Neural Networks)

\* ISTQB CT-AI Syllabus v1.0, Section 6.2 (Structure of Deep Neural Networks).

### NEW QUESTION # 96

Which option gives the correct values for accuracy and precision from the confusion matrix?

Choose ONE option (1 out of 4)

- **A. Accuracy = 80%, Precision = 75%**
- B. Accuracy = 80%, Precision = 50%
- C. Accuracy = 50%, Precision = 75%
- D. Accuracy = 75%, Precision = 80%

**Answer: A**

Explanation:

From the confusion matrix:

\* True Positives (TP) = 15

\* False Positives (FP) = 5

\* False Negatives (FN) = 15

\* True Negatives (TN) = 65

Accuracy =  $(TP + TN) / \text{Total}$

=  $(15 + 65) / 100$

= 80%

Precision =  $TP / (TP + FP)$

=  $15 / (15 + 5)$

=  $15 / 20$

= 75%

Section 3.2 - Functional Performance Criteria in the syllabus explains accuracy and precision exactly these ways when evaluating ML classification performance.

Option B is therefore the only correct pair of values.

### NEW QUESTION # 97

Which ONE of the following hardware is MOST suitable for implementing AI when using ML?

SELECT ONE OPTION

- A. High powered CPUs.
- **B. Hardware supporting fast matrix multiplication.**
- C. 64-bit CPUs.
- D. Hardware supporting high precision floating point operations.

**Answer: B**

Explanation:

A . 64-bit CPUs.

While 64-bit CPUs are essential for handling large amounts of memory and performing complex computations, they are not specifically optimized for the types of operations commonly used in machine learning.

B . Hardware supporting fast matrix multiplication.

Matrix multiplication is a fundamental operation in many machine learning algorithms, especially in neural networks and deep learning. Hardware optimized for fast matrix multiplication, such as GPUs (Graphics Processing Units), is most suitable for implementing AI and ML because it can handle the parallel processing required for these operations efficiently.

C . High powered CPUs.

High powered CPUs are beneficial for general-purpose computing tasks and some aspects of ML, but they are not as efficient as specialized hardware like GPUs for matrix multiplication and other ML-specific tasks.

D . Hardware supporting high precision floating point operations.

High precision floating point operations are important for scientific computing and some specific AI tasks, but for many ML applications, fast matrix multiplication is more critical than high precision alone.

Therefore, the correct answer is B because hardware supporting fast matrix multiplication, such as GPUs, is most suitable for the parallel processing requirements of machine learning.

## NEW QUESTION # 98

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