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## ISTQB Certified Tester AI Testing Exam Sample Questions (Q48-Q53):

### NEW QUESTION # 48

Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?

SELECT ONE OPTION

- A. Testing the API of the service powered by the ML model.
- **B. Testing the speed of the training of the model.**
- C. Testing the accuracy of the classification model.
- D. Testing the speed of the prediction by the model.

**Answer: B**

Explanation:

The question asks which test is least likely to be performed during the ML model testing phase. Let's consider each option:

\* Testing the accuracy of the classification model (A): Accuracy testing is a fundamental part of the ML model testing phase. It ensures that the model correctly classifies the data as intended and meets the required performance metrics.

\* Testing the API of the service powered by the ML model (B): Testing the API is crucial, especially if the ML model is deployed as part of a service. This ensures that the service integrates well with other systems and that the API performs as expected.

\* Testing the speed of the training of the model (C): This is least likely to be part of the ML model testing phase. The speed of

training is more relevant during the development phase when optimizing and tuning the model. During testing, the focus is more on the model's performance and behavior rather than how quickly it was trained.

\* Testing the speed of the prediction by the model (D): Testing the speed of prediction is important to ensure that the model meets performance requirements in a production environment, especially for real-time applications.

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ISTQB CT-AI Syllabus Section 3.2 on ML Workflow and Section 5 on ML Functional Performance Metrics discuss the focus of testing during the model testing phase, which includes accuracy and prediction speed but not the training speed.

#### NEW QUESTION # 49

Which statement regarding the use of training, validation, and test data sets is correct?

Choose ONE option (1 out of 4)

- A. Optimally, the data should be distributed equally between the training, validation, and test data sets.
- B. If only limited data is available, validation and test data sets can be combined in multiple ways during training.
- C. The data in the test data set must be equivalent to the data in the training data sets and to the data in the validation data sets.
- D. If limited data is available, it may be better to work without a separate test data set.

**Answer: C**

Explanation:

The ISTQB CT-AI syllabus (Section 3.2 - Model Evaluation) specifies the correct usage of training, validation, and test datasets. It emphasizes that the test dataset must be representative of the real operational data and must be equivalent in distribution to the training and validation sets, ensuring a fair and unbiased evaluation. Option D precisely matches this requirement.

Option A contradicts the syllabus because validation and test sets served different purposes: validation is for tuning, test is for final evaluation. Combining them undermines the reliability of results. Option B is incorrect because even with limited data, the syllabus recommends maintaining a test set or using techniques such as cross-validation rather than eliminating testing. Option C is wrong because equal distribution (33/33/33) is not recommended; typically, the training set is much larger (e.g., 70-80%).

Thus, Option D is the only statement aligned with the syllabus' guidance.

#### NEW QUESTION # 50

Before deployment of an AI-based system, a developer is expected to demonstrate in a test environment how decisions are made.

Which of the following characteristics does decision making fall under?

- A. Self-learning
- B. Non-determinism
- C. Autonomy
- D. Explainability

**Answer: D**

Explanation:

The syllabus defines explainability as the ability to understand how the AI-based system comes up with a particular result:

"Explainability is considered to be the ease with which users can determine how the AI-based system comes up with a particular result." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.7)

#### NEW QUESTION # 51

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 a self-learning AI system needs to adapt to and learn from the test object.
- C. The test environment for an autonomous AI system needs to perform both test design and execution autonomously.
- 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 # 52

Which of the following statements about the structure and function of neural networks is true?

Choose ONE option (1 out of 4)

- A. The input layer of a deep neural network must have at least as many neurons as its output layer
- B. The bias of a neuron is determined by the activation values of the neurons in the previous layer
- C. A single-layer perceptron is NOT a neural network
- D. Training a neural network only changes the values of the weights at the connections between neurons

**Answer: D**

Explanation:

Section 1.7 - Neural Networks of the ISTQB CT-AI syllabus explains that neural networks consist of neurons connected by weighted links. During training, learning occurs by adjusting the weights on these connections. This is the essence of gradient descent and backpropagation. Option B correctly states this behavior: only the weights are modified, not the activation functions, neuron counts, or architectural structure.

Option A is incorrect because a neuron's bias is not determined by previous activations; it is an independent trainable parameter added to the weighted input sum. Option C is incorrect because the syllabus states that a single-layer perceptron is a valid type of neural network, although limited to linearly separable problems.

Option D is incorrect because no rule requires the number of input neurons to exceed or equal the number of output neurons. Instead, input neurons correspond to the number of features, while output neurons correspond to tasks or classes. Therefore, Option B precisely reflects the syllabus definition of what changes during neural network training.

#### NEW QUESTION # 53

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