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39	A	B	C	D	E

PRACTICE QUESTIONS

KSTQB

CTAI1

ISTQB AI Testing (CT-AI) for Non-native English Speaker

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

Before you begin

What this is

9 practice questions for KSTQB CTAI1 , each with its answer key and an explanation.

Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

Send us three things and we will check it:

- the exam code, CTAI1
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1

MULTIPLE CHOICE

Which TWO of the following are common ways that artificial intelligence is used in systems? (Choose two.)

- ☒ **A** Classifying images into predefined categories
- ☒ **B** Predicting a numerical value from input data
- ☐ **C** Replacing every manually defined software requirement
- ☒ **D** Generating text from a learned distribution

ANSWER A • B • D

WHY AI systems commonly perform classification, regression or numerical prediction, and content generation. Replacing every manually defined requirement is not a standard characterization of AI use.

QUESTION 2

MULTIPLE CHOICE

Which TWO activities are part of the AI system development life cycle? (Choose two.)

- ☒ **A** Collecting and preparing data
- ☒ **B** Selecting an AI technique or model
- ☐ **C** Omitting stakeholder acceptance criteria
- ☒ **D** Deploying a trained model for use

ANSWER A • B • D

WHY AI system development includes data collection and preparation, selection of an appropriate AI approach, and deployment of the trained model. Acceptance criteria remain relevant and are not normally omitted.

QUESTION 3

SINGLE CHOICE

Which characteristic is a key testing challenge specific to many AI-based systems?

- ☒ **A** Test data can be non-deterministic and may not provide a single obviously correct output
- ☐ **B** All test cases must use production source code rather than a testable model
- ☐ **C** AI systems cannot be tested against explicit acceptance criteria
- ☐ **D** Defects in AI systems are always caused only by hardware failures

ANSWER A

WHY AI-based systems may be probabilistic, data-dependent, and sensitive to changing input distributions, so an output may be acceptable without being identical to an expected value.

QUESTION 4

SINGLE CHOICE

A test team is preparing test data for an AI-based system. Which property should receive the most attention?

- ☒ **A** Representativeness of the data for the intended use case
- ☐ **B** Using only the smallest possible number of examples
- ☐ **C** Ensuring that every example produces a deterministic output
- ☐ **D** Excluding examples that reveal potential model weaknesses

ANSWER A

WHY Test data should represent the conditions and populations expected in operation. Its quality, diversity, relevance, and coverage affect the validity of test results.

QUESTION 5

SINGLE CHOICE

Which test level is primarily concerned with checking that an AI component satisfies its specified functional and non-functional requirements when integrated with its surrounding software?

- ☐ A Component testing
- ☒ B System testing
- ☐ C Acceptance testing
- ☐ D Data preparation testing

ANSWER B

WHY System testing evaluates the integrated AI-based system against specified requirements and validates that it behaves as intended in its complete context.

QUESTION 6

SINGLE CHOICE

Which testing approach is most appropriate when a test oracle can compare an AI model's output with a previously labeled reference result for a given input?

- ☒ A A specification-based approach
- ☐ B A metamorphic testing approach
- ☐ C A pairwise testing approach
- ☐ D A transition testing approach

ANSWER A

WHY A specification-based approach derives tests from specified requirements and may use reference or expected results as a test oracle.

QUESTION 7

SINGLE CHOICE

For a classification problem, which metric combines precision and recall into a single measure?

- ☒ **A F1-score**
- ☐ B Mean time to repair
- ☐ C Training loss
- ☐ D Inference throughput

ANSWER A

WHY The F1-score is the harmonic mean of precision and recall and provides a single measure that balances both metrics.

QUESTION 8

SINGLE CHOICE

In a binary classification confusion matrix, what does a false positive represent?

- ☒ **A The model predicts the positive class when the actual class is negative**
- ☐ B The model predicts the negative class when the actual class is positive
- ☐ C The model predicts the positive class when the actual class is positive
- ☐ D The model predicts the negative class when the actual class is negative

ANSWER A

WHY A false positive is an incorrect positive prediction: the model labels a negative case as positive.

QUESTION 9

SINGLE CHOICE

In supervised learning, what is required during model training?

- ☒ **A** A training dataset containing input examples and their known target values
- ☐ **B** Only a collection of unlabeled input examples
- ☐ **C** A rule that prohibits any form of model validation
- ☐ **D** A fixed set of outputs that never changes

ANSWER A

WHY Supervised learning uses labeled examples, generally represented as input data paired with known target values, to learn a mapping or decision function.