ISTQB Certified Tester AI Testing (CT-AI) - Mock Exam

A. Labeled vs unlabeled data
B. Linear vs non-linear models
C. Structured vs unstructured data
D. Static vs dynamic learning
2. Which concept best explains 'overfitting'?
A. High bias
B. Model memorizes noise
C. Perfect generalization
D. Too little data
3. True or False: Underfitting occurs when a model is too complex.
4. What metric is most appropriate for highly imbalanced datasets?
A. Accuracy
B. Precision
C. F1 Score
D. MSE
5. Which metric evaluates a model across all classification thresholds?
A. ROC-AUC
B. Precision
C. MAE
D. Confusion Matrix
6. True or False: Recall penalizes false positives.
7. Which strategy is best when the expected result is unknown?

A. Black-box testing

1. What is the key difference between supervised and unsupervised learning?

B. Unit testing
C. Metamorphic testing
D. Regression testing
8. Which issue does 'data drift' refer to?
A. Missing values in input
B. Model overfitting
C. Shift in input distribution over time
D. Class imbalance
9. True or False: Pairwise testing ensures every possible input combination is tested.
10. What tool explains predictions using local interpretable models?
A. SHAP
B. LIME
C. Confusion Matrix
D. ROC
11. Which concept ensures humans are ultimately responsible for AI outcomes?
A. Explainability
B. Traceability
C. Accountability
D. Autonomy
12. True or False: SHAP is based on game theory.
13. What is the purpose of defect prediction in AI testing?
A. Improve model explainability
B. Prioritize high-risk code
C. Normalize inputs
D. Simplify model training

14. Which of the following is NOT a typical use of AI in testing?
A. Generate test data
B. Predict defect-prone modules
C. Validate UI layouts visually
D. Create regulatory documentation
15. True or False: Al models can be used to prioritize test cases based on risk.
16. In a credit approval system, what metric is most important to reduce denying qualified applicants?
A. Accuracy
B. Recall
C. Specificity
D. Precision
17. In cancer diagnosis, which metric should be prioritized?
A. Precision
B. Accuracy
C. Recall
D. ROC-AUC
18. True or False: Accuracy is always the best metric to use in AI classification tasks.
19. What is a 'test oracle'?
A. Tool for data labeling
B. Function that validates expected outputs
C. Training data validator
D. Explainability dashboard
20. What does GDPR enforce in the context of AI?
A. Code coverage thresholds
B. Right to explanation and data privacy
C. Mandatory deep learning audits

D. Bias removal via LIME