1
Question: What does TPR stand for in the context of ROC curves?
A) True Positive Ratio
B) True Positive Rate
C) False Positive Rate
D) False Positive Ratio
Correct Answer: B
2
Question: Which of the following is NOT a use case of ROC curves mentioned in the text?
A) Medical Diagnostics
B) Fraud Detection
C) Weather Forecasting
D) Customer Churn Prediction
Correct Answer: C
3
Question: What is a confusion matrix?
A) A graph showing the performance of a classification model.
B) A table visualizing the performance of a classification model by comparing predicted and actual
values.
C) A formula for calculating classification accuracy.
D) A type of significance test.
Correct Answer: B

4

Question: In a confusion matrix, what does a False Positive represent?

A) Correctly predicting a negative instance as negative.

- B) Incorrectly predicting a positive instance as negative. C) Correctly predicting a positive instance as positive. D) Incorrectly predicting a negative instance as positive. Correct Answer: D 5 Question: The formula for classification accuracy is: A) TP / TP + FP B) TP / TP + FN C) (TP + TN) / (TP + TN + FP + FN)D) (TP + FN) / (TP + TN + FP + FN)Correct Answer: C 6 Question: Precision is calculated as: A) TP / TP + FN B) TP / TP + FP C) TN / TN + FP D) TN / TN + FN Correct Answer: B 7 Question: Recall is also known as: A) Specificity B) Precision
- C) SensitivityD) F1 Score

Correct Answer: C

Question:	The F1	score	is the

- A) Arithmetic mean of precision and recall.
- B) Geometric mean of precision and recall.
- C) Harmonic mean of precision and recall.
- D) Sum of precision and recall.

Correct Answer: C

9

Question: Which metric is best suited for evaluating the performance of a regression model?

- A) Classification Accuracy
- B) Recall
- C) Mean Squared Error (MSE)
- D) F1 Score

Correct Answer: C

10

Question: What does a p-value less than 0.05 typically suggest in a significance test?

- A) The null hypothesis should be accepted.
- B) The observed differences are likely due to random chance.
- C) The observed differences are unlikely to have occurred by random chance.
- D) The test is inconclusive.

Correct Answer: C