1. Which algorithm is used for classification?

A. K-Means

B. Linear Regression

C. Logistic Regression

D. PCA

Answer: C

2. Which of the following is an unsupervised learning algorithm?

A. Decision Tree

B. Random Forest

C. K-Means

D. Naive Bayes

Answer: C

3. What does ANN stand for?

A. Artificial Natural Network

B. Automated Neural Network

C. Artificial Neural Network

D. Advanced Neural Node

Answer: C

4. Which activation function is commonly used in neural networks?

A. Softmax

B. ReLU

C. Sigmoid

D. All of the above

Answer: D

5. Which algorithm is used for dimensionality reduction?

A. SVM

B. PCA

C. KNN

D. Naive Bayes

Answer: B

6. Overfitting occurs when a model:

A. Fits the data poorly

B. Fits the training data too well

C. Fits both data perfectly

D. Cannot find patterns

Answer: B

7. Which metric is used for classification accuracy?

A. MSE

B. RMSE

C. Accuracy Score

D. R² Score

Answer: C

8. Which algorithm is used for recommendation systems?

A. KNN

B. Collaborative Filtering

C. Linear Regression

D. Logistic Regression

Answer: B

9. The process of converting raw data into understandable format is called:

A. Data Mining

B. Data Cleaning

C. Data Transformation

D. Data Labeling

Answer: C

10. Which ML type requires labeled data?

A. Supervised

B. Unsupervised

C. Reinforcement

D. Clustering

Answer: A

11. Gradient Descent is used to:

A. Increase error

B. Minimize loss

C. Increase accuracy

D. Reduce dataset

Answer: B

12. What is the output of a binary classification model?

A. Any number

B. 0 or 1

C. Multiple categories

D. Text

Answer: B

13. Which is a reinforcement learning concept?

A. Agent

B. Environment

C. Reward

D. All of the above

Answer: D

14. Which library is widely used for deep learning?

A. NumPy

B. TensorFlow

C. Pandas

D. Matplotlib

Answer: B

15. NLP stands for:

A. Natural Language Processing

B. Neural Learning Process

C. Next Level Prediction

D. None

Answer: A

16. Which model is used in NLP?

A. RNN

B. CNN

C. KNN

D. SVM

Answer: A

17. A confusion matrix is used in:

A. Regression

B. Classification

C. Clustering

D. Dimensionality reduction

Answer: B

18. Which term refers to training too long causing poor generalization?

A. Underfitting

B. Overfitting

C. Data Drift

D. Feature Scaling

Answer: B

19. What technique is used to avoid overfitting?

A. Dropout

B. More layers

C. More epochs

D. No activation

Answer: A

20. Which algorithm is best for continuous value prediction?

A. Logistic Regression

B. Decision Tree Classifier

C. Linear Regression

D. Naive Bayes

Answer: C