

1. Among the following option identify the one which is not a ty

- ☐ Semi unsupervised learning
- ☐ Supervised learning
- ☐ Reinforcement learning
- ☐ Unsupervised learning

r facial expressions".

Check Answer

2. Identify the kind of learning algorithm for "facial identities fo

- ☐ Prediction
- ☒ Recognition patterns
- ☐ Recognizing anomalies
- ☐ Generating patterns

Check Answer

3. Identify the model which is trained with data in only a single batch

- ☐ Offline learning
- ☐ Batch learning
- ☒ Both A and B
- ☐ None

Check Answer

4. What is the application of machine learning methods to a large da³ called?

- ☐ Big data computing
- ☐ Internet of things
- ☒ Data mining
- ☐ Artificial intelligence

5. Identify the type of learning in which labeled training data is used.

- ☐ Semi unsupervised learning
- ☒ Supervised learning
- ☐ Reinforcement learning
- ☐ Unsupervised learning

Check Answer

6. Identify whether true or false: In PCA the number of input dimensions is equal to principal components.

- ☒ True
- ☐ False

Check Answer

7. Among the following identify the one in which dimensionality reduction reduces.

- ☐ Performance
- ☐ Entropy
- ☐ Stochastics
- ☒ Collinearity

8. Which of the following machine learning algorithm is based upon the idea of bagging?

- ☐ Decision tree
- ☒ Random-forest
- ☐ Classification
- ☐ Regression

Check Answer

9. Choose a disadvantage of decision trees among the following.

- ☐ Decision trees are robust to outliers
- ☐ Factor analysis
- ☒ Decision trees are prone to overfit
- ☐ All of the above

Check Answer

10. What is the term known as on which the machine learning algorithms build a model based on sample data?

- ☐ Data training
- ☒ Training data
- ☐ Transfer data

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11. Machine learning is a subset of which of the following.

- ☒ Artificial intelligence
- ☐ Deep learning
- ☐ Data learning
- ☐ None of the above

Check Answer

12. Which of the following machine learning techniques helps in detecting the outliers in data?

- ☐ Classification
- ☐ Clustering
- ☒ Anomaly detection
- ☐ All of the above

Check Answer

13. The father of machine learning is _____

- ☒ Geoffrey Everest Hinton
- ☐ Geoffrey Hill
- ☐ Geoffrey Chaucer

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14. The most significant phase in genetic algorithm is _____

- ☐ Mutation
- ☐ Selection
- ☐ Fitness function
- ☒ Crossover

Check Answer

15. Which of the following are common classes of problems in machine learning?

- ☐ Regression
- ☐ Classification
- ☐ Clustering
- ☒ All of the above

16. Among the following options identify the one which is false regarding regression.

- ☐ It is used for the prediction
- ☐ It is used for interpretation
- ☐ It relates inputs to outputs
- ☒ It discovers casual relationships

Check Answer

17. Identify the successful applications of ML.

- ☐ Learning to classify new astronomical structures
- ☐ Learning to recognize spoken words
- ☐ Learning to drive an autonomous vehicle
- ☒ All of the above

18. Identify the incorrect numerical functions in the various function representation of machine learning.



Case-based



Support vector machines



Linear regression



Neural network

Check Answer

19. FIND-S algorithm ignores?



Positive



Negative



Both



None

20. Select the correct definition of neuro software.



It is software used by neurosurgeons



It is software used to analyze neurons



It is a powerful and easy neural network



None of the above

Check Answer

21. Choose whether the following statement is true or false: The backpropagation law is also known as the generalized Delta rule.



True



False

Check Answer

22. Choose the general limitations of the backpropagation rule among the following.



Slow convergence



Scaling



Local minima problem



All of the above



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23. Analysis of ML algorithm needs

- ☐ Statistical learning theory
- ☐ Computational learning theory
- ☒ Both A and B
- ☐ None of the above

Check Answer

24. Choose the most widely used mattress and tools to assess the classification models.

- ☐ The area under the ROC curve
- ☐ Confusion matrix
- ☐ Cost-sensitive accuracy
- ☒ All of the above

25. Full form of PAC is _____

- ☐ Probably Approx Cost
- ☒ Probably Approximate Correct
- ☐ Probability Approx Communication
- ☐ Probably Approximate Computation

Check Answer

26. Choose that following statement is true or false: True error is defined over the entire instance space, and not just over training data

- ☒ True
- ☐ False

Check Answer

27. Choose the options below of which the area CLT is comprised of.

- ☐ Mistake bound
- ☐ Sample complexity
- ☐ Computational complexity
- ☒ All of the above

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28. Choose the instance-based learner.

- ☐ Eager learner
- ☒ Lazy learner
- ☐ Both A and B are correct
- ☐ None of the above

Check Answer

29. Identify the difficulties with the k-nearest neighbor algorithm.

- ☐ Curse of dimensionality
- ☐ Calculate the distance of the test case from all training cases
- ☒ Both A and B
- ☐ None of the above

Check Answer

30. The total types of the layer in radial basis function neural networks is ____.

- ☐ 1
- ☐ 2
- ☒ 3

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31. Which of the following is an application of CBR?

- ☐ Diagnosis
- ☒ Design
- ☐ Planning
- ☐ All of the above

Check Answer

32. Choose the correct advantages of CBR.

- ☐ Fast to train
- ☐ A local approx is found for each test case
- ☐ Knowledge is in a form understandable by human
- ☒ All of the above

36. What does K stand for in K mean algorithm?

- ☐ Number of clusters
- ☐ Number of data
- ☐ Number of attributes
- ☒ Number of iterations

Check Answer

37. Choose whether true or false: Decision tree cannot be used for clustering

- ☐ True
- ☒ False

Check Answer

38. Identify the clustering method which takes care of variance in data

- ☐ Decision tree
- ☒ Gaussian mixture model
- ☐ K means
- ☐ All of the above

39. Which of the following is not a supervised learning

- ☒ PCA
- ☐ Naive Bayesian
- ☐ Linear regression
- ☐ Decision tree

Check Answer

40. What is unsupervised learning?

- ☐ Number of groups may be known
- ☐ Features of group explicitly stated
- ☒ Neither feature nor number of groups is known
- ☐ None of the above

Check Answer

41. Which of the following is not a machine learning algorithm?

- ☐ SVM
- ☒ SVG
- ☐ Random forest

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42. What is true about Machine Learning?

- ☐ The main focus of ML is to allow computer systems to learn from experience without being explicitly programmed or human intervention.
- ☐ ML is a type of artificial intelligence that extracts patterns out of raw data by using an algorithm or method.
- ☐ Machine Learning (ML) is the field of computer science.
- ☒ All of the above

Check Answer

43. Which of the following is not machine learning?

- ☐ Artificial intelligence
- ☒ Rule-based inference
- ☐ Both A and B
- ☐ None of the above

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- ☐ None of the above

Check Answer

44. Identify the method which is used for trainControl resampling.

- ☐ svm
- ☒ repeatedcv
- ☐ Bag32
- ☐ None of the above

45. Among the following option identify the one which is used to create the most common graph types.

- ☐ plot
- ☐ quickplot
- ☒ qplot
- ☐ All of the above