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## Machine Learning MCQ with Answers

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**Machine learning** is a field of computer science that deals with the problem of finding mathematical and statistical functions that best explain the relationship between input data, output data, and other inputs (external) to a system. Machine learning has some uses in areas such as detection, recommendation systems, fraud detection, machine translation, visual recognition, and the development of autonomous robotic systems.

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#### Q1. What is machine learning?

- A. The selective acquisition of knowledge through the use of manual programs
- B. The selective acquisition of knowledge through the use of computer programs
- C. The autonomous acquisition of knowledge through the use of manual programs
- **D. The autonomous acquisition of knowledge through the use of computer programs**

#### Q2. Machine Learning is a field of AI consisting of learning algorithms that .....

- A. At executing some task
- B. Over time with experience
- C. Improve their performance
- **D. All of the above**

#### Q3. .... is a widely used and effective machine learning algorithm based on the idea of bagging.

- A. Regression
- B. Classification

- C. Decision Tree
- **D. Random Forest**

**Q4. What is the disadvantage of decision trees?**

- A. Factor analysis
- B. Decision trees are robust to outliers
- **C. Decision trees are prone to be overfit**
- D. All of the above

**Q5. How can you handle missing or corrupted data in a dataset?**

- A. Drop missing rows or columns
- B. Assign a unique category to missing values
- C. Replace missing values with mean/median/mode
- **D. All of the above**

**Q6. Which of the followings are most widely used metrics and tools to assess a classification model?**

- A. Confusion matrix
- B. Cost-sensitive accuracy
- C. Area under the ROC curve
- **D. All of the above**

**Q7. Machine learning algorithms build a model based on sample data, known as**

.....

- **A. Training Data**
- B. Transfer Data
- C. Data Training
- D. None of the above

**Q8. Machine learning is a subset of .....**

- A. Deep Learning
- **B. Artificial Intelligence**
- C. Data Learning
- D. None of the above

**Q9. A Machine Learning technique that helps in detecting the outliers in data.**

- A. Clustering
- B. Classification
- **C. Anamoly Detection**
- D. All of the above

**Q10. Who is the father of Machine Learning?**

- A. Geoffrey Hill
- B. Geoffrey Chaucer
- **C. Geoffrey Everest Hinton**
- D. None of the above

**Q11. What is the most significant phase in a genetic algorithm?**

- A. Selection
- B. Mutation
- **C. Crossover**
- D. Fitness function

**Q12. Which one in the following is not Machine Learning disciplines?**

- A. Physics
- B. Information Theory
- **C. Neurostatistics**
- D. Optimization Control

**Q13. Machine Learning has various function representation, which of the following is not function of symbolic?**

- A. Decision Trees
- B. Rules in propotional Logic

- C. Rules in first-order predicate logic
- **D. Hidden-Markov Models (HMM)**

**Q14. .... algorithms enable the computers to learn from data, and even improve themselves, without being explicitly programmed.**

- A. Deep Learning
- **B. Machine Learning**
- C. Artificial Intelligence
- D. None of the above

**Q15. What are the three types of Machine Learning?**

- A. Supervised Learning
- B. Unsupervised Learning
- C. Reinforcement Learning
- **D. All of the above**

**Q16. Which of the following is not a supervised learning?**

- **A. PCA**
- B. Naive Bayesian
- C. Linear Regression
- D. Decision Tree Answer

**Q17. Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are applications of .....**

- **A. Reinforcement Learning**
- B. Supervised Learning: Classification
- C. Unsupervised Learning: Regression
- D. None of the above

**Q18. Which of the following is not numerical functions in the various function representation of Machine Learning?**

- **A. Case-based**
- B. Neural Network

- C. Linear Regression
- D. Support Vector Machines

**Q19. Common classes of problems in machine learning is .....**

- A. Clustering
- B. Regression
- C. Classification
- **D. All of the above**

**Q20. Which of the following clustering algorithm merges and splits nodes to help modify nonoptimal partitions?**

- **A. K-Means clustering**
- B. Conceptual clustering
- C. Agglomerative clustering
- D. All of the above

**Q21. Missing data items are ..... with Bayes classifier.**

- A. Ignored
- B. Treated as equal compares
- **C. Treated as unequal compares.**
- D. Replaced with a default value.

**Q22. Which supervised learning technique can process both numeric and categorical input attributes?**

- A. Bayes classifier
- **B. Linear regression**
- C. Logistic regression
- D. None of the above

**Q23. Logistic regression is a ..... regression technique that is used to model data having a ..... outcome.**

- A. Linear, binary
- **B. Linear, numeric**

- **C. Nonlinear, binary**
- D. Nonlinear, numeric

**Q24. Regression trees are often used to model which data?**

- A. Linear
- **B. Nonlinear**
- C. Categorical
- D. None of the above

**Q25. What is called the average squared difference between classifier predicted output and actual output?**

- A. Mean relative error
- **B. Mean squared error**
- C. Mean absolute error
- D. Root mean squared error

**Q26. Data used to optimize the parameter settings of a supervised learner model is called .....**

- A. Test
- B. Training
- **C. Validation**
- D. None of the above

**Q27. Bootstrapping allows us to choose the same training instance several times.**

- **A. True**
- B. False

**Q28. The average positive difference between computed and desired outcome values**

- **A. Mean positive error**
- B. Mean absolute error
- C. Mean squared error
- D. Root mean squared error

**Q29. Which of the following statement is true about prediction problems?**

- A. The output attribute must be numeric.
- B. The output attribute must be categorical
- C. The resultant model is designed to determine future outcomes
- **D. The resultant model is designed to classify current behavior.**

**Q30. What is the another name for an output attribute?**

- A. Predictive variable
- B. Estimated variable
- C. Dependent variable
- **D. Independent variable**

**Q31. Supervised learning and unsupervised clustering both require at least one .....**

- A. Input attribute
- B. Output attribute
- **C. Hidden attribute**
- D. Categorical attribute

**Q32. .... is not a machine learning algorithm.**

- **A. SVG**
- B. SVM
- C. Random forest
- D. All of the above

**Q33. Identify which is not machine learning disciplines?**

- A. Physics
- B. Information theory
- **C. Neuro Statistics**
- D. None of the above

**Q34. What is the full form of PAC?**

- A. Probably Approx Cost
- **B. Probably Approximate Correct**
- C. Probability Approx Communication
- D. None of the above

**Q35. Analysis of Machine Learning algorithm needs .....**

- A. Statistical learning theory
- B. Computational learning theory
- **C. Both Statistical & Computational learning theory**
- D. None of the above

**Q36. Choose the incorrect numerical functions in the various function representation of machine learning.**

- **A. Case-based**
- B. Neural Network
- C. Linear regression
- D. All of true

**Q37. What are successful applications of Machine Learning?**

- A. Learning to recognize spoken words
- B. Learning to drive an autonomous vehicle
- C. Learning to classify new astronomical structures
- **D. All of the above**

**Q38. What is called the application of machine learning methods to large databases?**

- **A. Data mining**
- B. Internet of things
- C. Artificial intelligence
- D. None of the above

**Q39. If machine learning model output involves target variable then that model is called as predictive model.**

- **A. True**
- B. False

**Q40. .... are the best machine learning method.**

- A. Fast
- B. Accuracy
- C. Scalable
- **D. All of the above**

**Q41. What is the output of training process in machine learning?**

- A. Null
- B. Accuracy
- **C. Machine learning model**
- D. Machine learning algorithm

**Q42. A model of language consists of the categories, does not include .....**

- A. Language units
- **B. Structural units**
- C. System constraints
- D. Role structure of units

**Q43. Regression discovers causal relationships.**

- **A. True**
- B. False

**Q44. .... is the approach of basic algorithm for decision tree induction.**

- **A. Greedy**
- B. Top Down
- C. Procedural
- D. Step by Step

**Q45. What is the way to ensemble multiple classifications or regression?**

- A. Bagging
- B. Blending
- C. Boosting
- **D. Stacking**

**Q46. What is the most common issue when using Machine Learning?**

- **A. Poor Data Quality**
- B. Lack of skilled resources
- C. Inadequate Infrastructure
- D. None of the above

**Q47. In Machine learning the module that must solve the given performance task is known as .....**

- A. Critic
- B. Generalizer
- **C. Performance system**
- D. All of these

**Q48. Which methods are used for the calibration in Supervised Learning?**

- A. Platt Calibration
- B. Isotonic Regression
- **C. Both Platt Calibration & Isotonic Regression**
- D. None of the above

**Q49. How many types are available in machine learning?**

- A. 2
- **B. 3**
- C. 4
- D. 5

**Q50. The Bayes rule can be used in .....**

- A. Solving queries
- B. Increasing complexity
- C. Decreasing complexity
- **D. Answering probabilistic query**

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