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Grade **20.00** out of 30.00 (**67**%)

Question **1**

Correct

Mark 1.00 out of 1.00

K means clustering and K neighborhood algorithms are closely related

- a. yes
- b. no   ✔
- c. maybe

Question **2**

Correct

Mark 1.00 out of 1.00

If we apply the idea of bagging, which one of the following gives the effect results

- a. Regression
- b. Random forest   ✔
- c. Classification
- d. Decision tree

Question **3**

Incorrect

Mark 0.00 out of 1.00

DBSCAN is an ___ algorithm

- a. Clustering   ✘
- b. Classification
- c. Regression
- d. Association

Question **4**

Incorrect

Mark 0.00 out of 1.00

In which neural network model are the weights fixed and adjustable to enable learning.

○ a. Pitts Model

○ b. Pitts and Rosenbalt Perceptron Model

◉ c. None of the above   ✖

○ d. Both a and b

Question **5**

Correct

Mark 1.00 out of 1.00

Which mathematical function is analogous to the cell body of a neuron?

○ a. Integration

◉ b. Summation   ✔

○ c. Differentiation

○ d. Modulus

Question **6**

Correct

Mark 1.00 out of 1.00

Agglomerative Clustering is a type of

○ a. K means clustering

○ b. DBSCAN

○ c. Divisive Clustering

◉ d. Hierarchical clustering   ✔

Question **7**

Correct

Mark 1.00 out of 1.00

An application of multilayer feedforward neural network is

○ a. Pattern matching

◉ b. Pattern classification   ✔

○ c. Pattern mapping

○ d. Control applications

Question **8**

Incorrect

Mark 0.00 out of 1.00

Which of the following neural network model needs smaller learning rates

○ a. All of the above

○ b. Hopfield networks

○ c. Backpropagation networks

◉ d. Multilayer perceptron   ✖

Question **9**

Correct

Mark 1.00 out of 1.00

The gradient function is always set at zero to find

○ a. None of the above

○ b. The maximum value

○ c. The minimum value

◉ d. Both a and b   ✔

Question **10**

Correct

Mark 1.00 out of 1.00

A regression equation is given as y=-0.0136+0.067x where x represents the weight and y represents the risk of hypertension. The meaning of the given equation is

○ a. the average increase of hypertension due to 6.7kgs increase in weight is 1%

○ b. each kg increase in weight affects hypertension by 6.7%

◉ c. each kg of weight increase affects hypertension to increase by 6.7% on an average   ✔

○ d. for increase in weight hypertension increases by 1.36%

Question **11**

Incorrect

Mark 0.00 out of 1.00

Hebb's learning rule states that

○ a. The strength of neuron is based on past occurrences

◉ b. None of the above.   ✖

○ c. The strength of a neuron increases gradually

○ d. The strength of neuron increases if fired repeatedly

Question **12**

Correct

Mark 1.00 out of 1.00

Which of the following is not a distance calculation methodology?

○ a. Miclusky distance ✔

○ b. Minkowsky distance

○ c. Manhattan distance

○ d. Elucidean distance

Question **13**

Correct

Mark 1.00 out of 1.00

Which is not a decision tree algorithm?

○ a. CHAID

○ b. ID2 ✔

○ c. C4.5

○ d. CART

Question **14**

Correct

Mark 1.00 out of 1.00

If error in a model is represented as 'e', the inputs as x(i) and the learning parameter as 'w', give the representation of weight change in a perceptron model.

○ a. wx(i)

○ b. wex(i) ✔

○ c. we

○ d. ex(i)

Question **15**

Incorrect

Mark 0.00 out of 1.00

Some implementations of Decision tree does not include:

○ a. WEKA

○ b. Orange

○ c. SARSA

○ d. KNIME ✘

Question 16

Correct

Mark 1.00 out of 1.00

The first perceptron model was proposed by whom of the following in the year 1958.

- ○ a. Marvin Minsky
- ● b. Rosenbalt   ✔
- ○ c. McCulloch Pitts
- ○ d. John Hopfield

Question 17

Correct

Mark 1.00 out of 1.00

Which one of the following is a decision tree type?

- ○ a. CG3
- ○ b. None of the above
- ○ c. ID2
- ● d. ID3   ✔

Question 18

Correct

Mark 1.00 out of 1.00

Dividing datapoints into homogeneous classes are called

- ● a. Clustering   ✔
- ○ b. Regression
- ○ c. Bagging
- ○ d. Classification

Question 19

Correct

Mark 1.00 out of 1.00

The cost function in a neural network model is minimized using

- ● a. Gradient descent   ✔
- ○ b. Hill climbing algorithm
- ○ c. Weight function
- ○ d. Gradient ascent

Question **20**

Incorrect

Mark 0.00 out of 1.00

Which is not a data smoothing model

○ a. Moving average   ✖

○ b. Random walk

○ c. Random method

○ d. Trend prediction

Question **21**

Incorrect

Mark 0.00 out of 1.00

In a feedforward network with x1,x2,x3...as inputs and w1,w2,w3... as weights, the weighted sum projected through the activation function is

○ a. $\sum xi*wi$

○ b. $\sum xi + \sum wi$

○ c. $\sum xi$ ✖

○ d. $\sum wi$

Question **22**

Correct

Mark 1.00 out of 1.00

A tree diagram which illustrates the arrangement of clusters in hierarchical clustering is called

○ a. Random forest

○ b. Decision tree

○ c. None of the above

○ d. Dendrogram   ✔

Question **23**

Incorrect

Mark 0.00 out of 1.00

Which of the following is not true about decision trees?

○ a. uses both open box model and white box model   ✖

○ b. Complex and does not mirror human decisions.

○ c. uses statistical tests to validate model

○ d. can handle both numerical and categorical data

Question 24

Incorrect

Mark 0.00 out of 1.00

Which is an example of a non parametric method.

○ a. Apriori

○ b. SOM

○ c. SVM

◉ d. Classification   ✖

Question 25

Incorrect

Mark 0.00 out of 1.00

Hebbs rules follows, which of the following learning algorithm

○ a. Unsupervised learning

○ b. Semisupervised learning

◉ c. Both supervised and unsupervised learning   ✖

○ d. Supervised learning

Question 26

Correct

Mark 1.00 out of 1.00

What is the most important advantage of using neural networks?

○ a. Parallel structure, high computational rates

○ b. More tolerance levels

◉ c. All of the above   ✔

○ d. Real time computational rates

Question 27

Correct

Mark 1.00 out of 1.00

Decision tree does not have the following symbol for representation.

○ a. Squares

◉ b. Diamonds   ✔

○ c. Circles

○ d. Triangles

Question **28**

Correct

Mark 1.00 out of 1.00

Cancelling the effect of random variation, removing outliers on a dataset is called

○ a. Univariate

○ b. Non parametric methods

◉ c. Smoothing   ✔

○ d. Imputing

Question **29**

Correct

Mark 1.00 out of 1.00

Which machine learning algorithm is used to understand earthquake behavior, based on areas hit by earthquake in a region?

○ a. Classification

○ b. Association

○ c. Regression

◉ d. Clustering   ✔

Question **30**

Correct

Mark 1.00 out of 1.00

The fundamental unit of neural network is called

◉ a. Neuron   ✔

○ b. Brain

○ c. Dendrite

○ d. Axon

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