1) Among the following identify the one in which dimensionality reduction reduces.
a) Performanceb) statistics
c) Entropy
d) Collinearity
Ans: (d)
2) Which of the following machine learning algorithm is based upon the idea of bagging?
a) Decision Tree
b) Random Forest
c) Classfication
d) SVM
Ans: (b)
3) Choose a disadvantage of decision trees among the following.
e) Decision tree robust to outliers
f) Factor analysis
g) Decision Tree are prone to overfit
h) all of the above
Ans: (c)
4) What is the term known as on which the machine learning algorithms build a model based on sample data?
a) Data Training
b) Sample Datac) Training data
d) None of the above
Ans: (a)
5) Which of the following machine learning techniques helps in detecting the outliers in data?
a) Clustering
b) Classificationc) Anamoly detection
d) All of the above
Ans: (c)

6) Identify the incorrect numerical functions in the various function representation of machine learning.
a) Support Vectorb) Regressionc) Case basedd) Classification
Ans: (c)
7) Analysis of ML algorithm needs
a) Statistical learning theoryb) Computational learning theoryc) None of the aboved) Both a and b
Ans: (d)
8) Identify the difficulties with the k-nearest neighbor algorithm. a) Curse of dimensionality b) Calculate the distance of test case for all training cases c) Both a and b d) None
Ans: (c)
9) The total types of the layer in radial basis function neural networks is a) 1 b) 2 c) 3 d) 4
Ans: (c)
a) PCA b) Naïve bayes c) Linear regression d) KMeans
Ans: (a)
11) What is unsupervised learning?
a) Number of groups may be known
b) Features of groups explicitly stated
c) Neither feature nor number of groups is know
d) None of the above

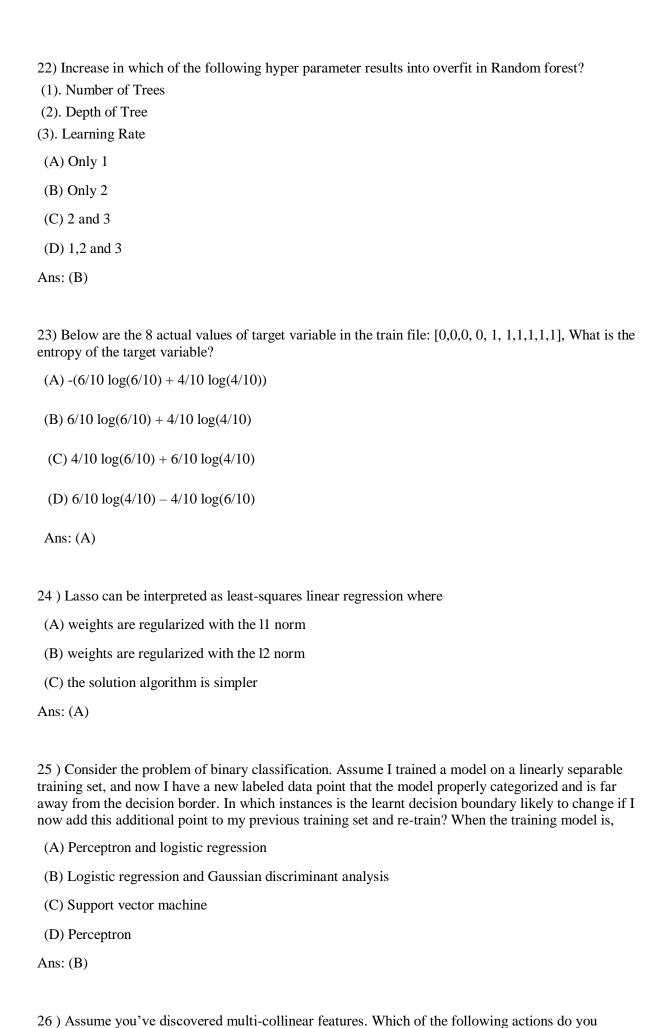
12) Which of the following is not a machine learning algorithm?
a) SVM
b) SVG
c) Random Forest Algorithm
d) None of the above
Ans: (b)
 13) is the scenario when the model fails to decipher the underlying trend in the input data a) Overfitting b) Underfitting c) Both a and b d) None of the above
Ans: (b)
14) Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are applications of
a) Reinforcement learning
b) Supervised learning
c) Unsupervised Learning
d) None of the above
Ans: (a)
15) What is called the average squared difference between classifier predicted output and actual output?
15) What is called the average squared difference between 55 classifier
a) Mean relative errorb) Mean squared error
c) Mean absolute error
d) Root mean squared error
Ans: (b)
16) Logistic regression is a regression technique that is used to model data having a outcome.
a) Linear, binary
b) Linear, numericc) Nonlinear, binary
d) Nonlinear, numeric
Ans: (c)

) You are given reviews of few netflix series marked as positive, negative and neutral. Classifying reviews of a new netflix series is an example of

- supervised learning
 unsupervised learning
- 3. semisupervised learning4. reinforcement learning

Ans: (1)

18) Following is powerful distance metrics used by Geometric model
A. euclidean distance
B. manhattan distance
C. both a and b
D. square distance
Ans: (c)
19) Which of the following techniques would perform better for reducing dimensions of a data set?
A. removing columns which have too many missing values
B. removing columns which have high variance in data
C. removing columns with dissimilar data trends
D. none of these
Ans: (A)
 20) Supervised learning and unsupervised clustering both require which is correct according to the statement. 1. output attribute. 2. hidden attribute. 3. input attribute. 4. categorical attribute
Ans: (3)
21) What is the meaning of hard margin in SVM? (A) SVM allows very low error in classification (B) SVM allows high amount of error in classification (C) Underfitting (D) SVM is highly flexible Ans: (A)



intend to take next? (1). Both collinear variables should be removed. (2). Instead of deleting both variables, we can simply delete one. (3). Removing correlated variables may result in information

loss. We may utilize penalized regression models such as ridge or lasso regression to keep such variables.

- 1. Only 1
- 2. Only 2
- 3. Either 1 or 3
- 4. Either 2 or 3

Ans: (4

27) A least squares regression study of weight (y) and height (x) yielded the following least squares line: $y = 120 + 5x$. This means that if the height is increased by one inch, the weight should increase by what amount?
(A) increase by 1 pound
(B) increase by 5 pound
(C) increase by 125 pound
(D) None of the above
Ans: (B)
28) The line described by the linear regression equation (OLS) attempts to?
(A) Pass through as many points as possible.
(B) Pass through as few points as possible
(C) Minimize the number of points it touches
(D) Minimize the squared distance from the points
Ans: (D)
29) For two real-valued attributes, the correlation coefficient is 0.85. What does this value indicate?
(A) The attributes are not linearly related
(B) As the value of one attribute increases the value of the second attribute also increases
(C) As the value of one attribute decreases the value of the second attribute increases
(D) The attributes show a curvilinear relationship
Ans: (C)
30) Which neural network architecture would be most suited to handle an image identification problem (recognizing a dog in a photo)?
(A) Multi Layer Perceptron
(B) Convolutional Neural Network
(C) Recurrent Neural network
(D) Perceptron
Ans: (B)