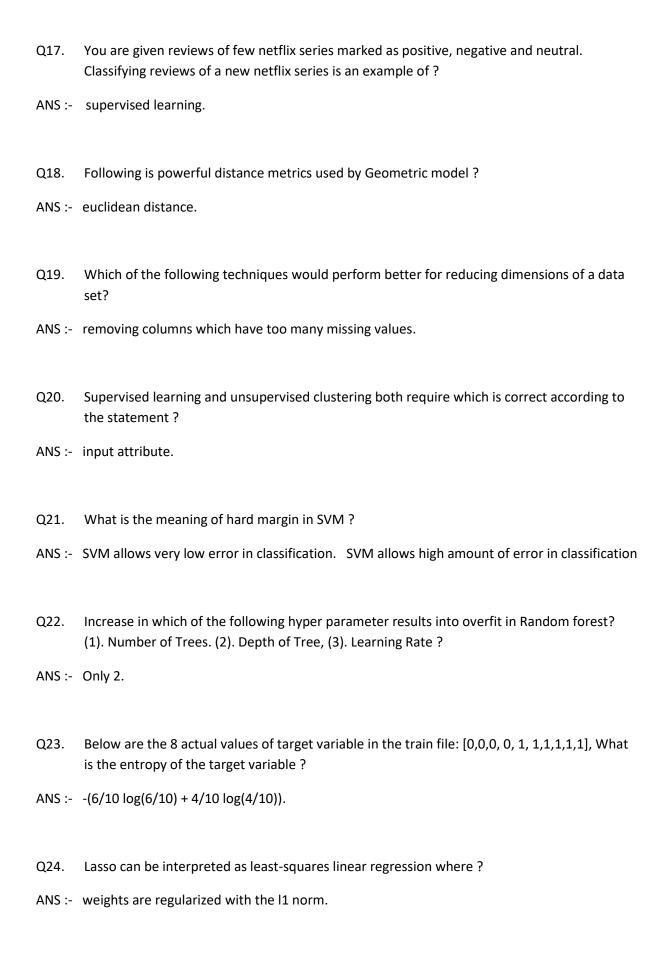
## PFA\_FILE\_3

| Q1.    | Among the following identify the one in which dimensionality reduction reduces?                        |
|--------|--|
| ANS :- | Collinearity.  |
|        |  |
| Q2.    | Which of the following machine learning algorithm is based upon the idea of bagging?                   |
| ANS :- | Random Forest.   |
|        |  |
| Q3.    | Choose a disadvantage of decision trees among the following?   |
|        |  |
| ANS :- | Decision Tree are prone to overfit.  |
|        |  |
| Q4.    | What is the term known as on which the machine learning algorithms build a model based on sample data? |
| 4.1.6  |  |
| ANS :- | Training data.   |
|        |  |
| Q5.    | Which of the following machine learning techniques helps in detecting the outliers in data?            |
| ANS :- | Anamoly detection.   |
|        |  |
| Q6.    | Identify the incorrect numerical functions in the various function representation of machine           |
|        | learning ?   |
| ANS :- | Case based.  |
|        |  |
| Q7.    | Analysis of ML algorithm needs ?   |
| ANS :- | Both a and b.  |
|        |  |
| Q8.    | Identify the difficulties with the k-nearest neighbor algorithm?                                       |
|        |  |
| ANS :- | Both a and b.  |
|        |  |

| Q9.    | The total types of the layer in radial basis function neural networks is?                                  |
|--------|--|
| ANS :- | 3.   |
|        |  |
| Q10.   | Which of the following is not a supervised learning?   |
| ANS :- | PCA.   |
|        |  |
| Q11.   | What is unsupervised learning?   |
| ANS :- | Neither feature nor number of groups is known.   |
|        |  |
| Q12.   | Which of the following is not a machine learning algorithm?  |
| ANS :- | SVG.   |
|        |  |
| Q13.   | is the scenario when the model fails to decipher the underlying trend in the input data ?                  |
| ΔNS ·- | Underfitting.  |
| 7      |  |
| Q14.   | Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are applications of? |
| ANS :- | Reinforcement learning.  |
|        |  |
| Q15.   | What is called the average squared difference between classifier predicted output and actual output ?      |
| ANS :- | Mean squared error.  |
|        |  |
| Q16.   | Logistic regression is a regression technique that is used to model data having a outcome ?                |
| ANS :- | Nonlinear, binary.   |



| Q25.   | Consider the problem of binary classification. Assume I trained a model on a linearly separable training set, and now I have a new labeled data point that the model properly categorized and is far away from the decision border. In which instances is the learnt decision boundary likely to change if I now add this additional point to my previous training set and re-train? When the training model is ? |
|--------|---|
| ANS :- | Logistic regression and Gaussian discriminant analysis.   |
| Q26.   | Assume you've discovered multi-collinear features. Which of the following actions do you 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 ?   |
| ANS :- | Either 2 or 3.  |

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

The line described by the linear regression equation (OLS) attempts to \_\_\_\_\_?

For two real-valued attributes, the correlation coefficient is 0.85. What does this value

Which neural network architecture would be most suited to handle an image identification

Q27.

Q28.

Q29.

Q30.

should increase by what amount?

ANS:- Pass through as many points as possible.

ANS:- The attributes are not linearly related.

ANS:- Convolutional Neural Network.

problem (recognizing a dog in a photo)?

ANS:- increase by 1 pound.

indicate?