41) Among the following identify the one in which dimensionality reduction reduces.

   a) Performance
   b) statistics
   c) Entropy
   d) Collinearity
      Ans: d) Collinearity

42) Which of the following machine learning algorithm is based upon the idea of bagging?

a) Decision Tree

b) Random Forest

c) Classification

d) SVM

   Ans: b) Random Forest

43) Choose a disadvantage of decision trees among the following.

a) Decision tree robust to outliers

b) Factor analysis

c) Decision Tree are prone to overfit

d) all of the above

   Ans: c) Decision Tree are prone to overfit

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

   a) Data Training
   b) Sample Data
   c) Training data
   d) None of the above
      Ans: c) Training data

45) Which of the following machine learning techniques helps in detecting the outliers in data?

   a) Clustering
   b) Classification
   c) Anamoly detection
   d) All of the above
      Ans: c) Anamoly detection

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

a) Support Vector
b) Regression
c) Case based
d) Classification
   Ans: c) Case based

47) Analysis of ML algorithm needs

a) Statistical learning theory
b) Computational learning theory
c) None of the above
d) Both a and b
   Ans: d) Both a and b

48) 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) Both a and b

49) The total types of the layer in radial basis function neural networks is _____
a) 1
b) 2
c) 3
d) 4
   Ans: c) 3

50) Which of the following is not a supervised learning
a) PCA
b) Naïve bayes
c) Linear regression
d) KMeans
   Ans: a) PCA