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

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

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

a) Decision Tree

b) Random Forest

c) Classfication

d) SVM

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

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

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

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

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

47) Analysis of ML algorithm needs

a) Statistical learning theory
b) Computational learning theory
c) None of the above
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

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

50) Which of the following is not a supervised learning
a) PCA (Principle Component Analysis)
b) Naïve bayes
c) Linear regression
d) KMeans