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

a) Performance

b) statistics

c) Entropy

d) Collinearity

Answer: **d**

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

a) Decision Tree

b) Random Forest

c) Classification

d) SVM

Answer: **b**

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

Answer: C

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

Answer: **c**

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

Answer: **C**

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

a) Support Vector

b) Regression

c) Case based

d) Classification

Answer: **C**

47) Analysis of ML algorithm needs

a) Statistical learning theory

b) Computational learning theory

c) None of the above

d) Both a and b

Answer: **d**

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

Answer: **C**

49) The total types of the layer in radial basis function neural networks is _____

a) 1

b) 2

c) 3

d) 4

Answer: **C**

50) Which of the following is not a supervised learning

a) PCA

b) Naïve Bayes

c) Linear regression

d) KMeans

Answer: **a**