Machine Learning Assignment-3

Choose the correct answer.

1) All of above

2) None

3) Reinforcement Learning and Unsupervised Learning

4) The tree representing how close the data points are to each other

5) None

6) k-nearest neighbor is same as k-means

7)   1,2 and 3

8)   1 only

9)   2

10) Given sales data from a large number of products in a supermarket, estimate future sales for each of these products.

11) option b

12 option b

13. **Importance of clustering**

1) Clustering helps in understanding the natural grouping in a dataset. Their purpose is to make sense to partition the data into some group of logical groupings.

2) They play a wide role in applications like marketing economic research and weblogs to identify similarity measures, Image processing, and spatial research.

3) They are used in outlier detections to detect credit card fraudulence.

14) There are two important elements in improving the quality of clustering: **improving the weights of the features in a document vector and creating a more appropriate distance measure**.