Q1. 2

Q2. Option 1,2 and 4.

Q3. formulating the clustering problem.

Q4. Euclidean Distance.

Q5. Divisive Clustering

Q6. All Answer is correct.

Q7. Divide the data points into Group.

Q8. Unsupervised Learning

Q9. K means Clustering.

Q10.K mean Clustering.

Q11.All the above.

Q12.Labeled Data.

Q13. Calculating the Distance, link the clusters and choose the right number of clusters.

Q14. Cluster quality is measured by the average silhouette coefficient values of all the objects in the data set.

Q15. Cluster Analysis:

It is Basic and important Data mining technique. Its goal is to divide the data points into Group. It is used in many fields like data compression, Machine Learning, Pattern Recognition.

1.Hierachial Based: All the subjects in Data set will form one Single cluster, there is 2 types like Agglomerative method: Start with single object, start grouping into clusters .

Divisive Method: Complete Data set will be divided into partitions.

2. Centroid Based: Clusters are represented by central entity in this method.

K mean clustering is the example of this method.

3.Distribution Based: Objects that belong to the same distribution are put into single cluster.

4.Density Based: These clusters are defined by the area of the density which is higher than the data set.