MACHINE LEARNING ASSIGNMENT – 1 (Answers)

Q1 Ans: 4

Q2 Ans: 1,2&4

Q3 Ans: formulating the clustering problem

Q4 Ans: Euclidean distance

Q5 Ans: Divisive clustering

Q6 Ans: All answers are correct

Q7 Ans: Divide the data points into groups

Q8 Ans: Unsupervised learning

Q9 Ans: Diverse clustering

Q10 Ans: K-means clustering algorithm

Q11 Ans: All of the above

Q12 Ans: Labeled data

Q13 Ans: Cluster analysis is calculated by Euclidian Distance between two observations, which is the square root of the sum of squared distance.

Q14 Ans: Cluster quality is measured using the average silhouette coefficient value of all objects in the data set.

Q15 Ans: The dataset is divided into clusters to create a tree-like structure, which is also called a dendrogram. The observations or any number of clusters can be selected by cutting the tree at the correct level. When we try to group a set of objects that have similar kind of characteristics, attributes these groups are called clusters. The process is called clustering. Types of cluster analysis are, Centroid-based Clustering, Density-based Clustering, Distribution-based Clustering, Hierarchical Clustering.