# MACHINE LEARNING

Answer 1 - c) 6

Answer 2 - d) 1, 2 and 4

Answer 3 - d) formulating the clustering problem

Answer 4 - a) Euclidean distance

Answer 5 - b) Divisive clustering

Answer 6 - d) All answers are correc

Answer 7 - a) Divide the data points into groups

Answer 8 - b) Unsupervised learning

Answer 9 - a) K- Means clustering

Answer 10 - a) K-means clustering algorithm

Answer 11 - d) All of the above

Answer 12 – a) Labeled data

Answer 13 – The hierarchical cluster analysis follows three basic steps: 1) calculate the distances, 2) link the clusters, and 3) choose a solution by selecting the right number of clusters. First, we have to select the variables upon which we base our clusters.

Answer 14 – Silhouette Method: This technique measures the separability between clusters. First, an average distance is found between each point and all other points in a cluster. Then it measures the distance between each point and each point in other clusters.

Answer 15 – Cluster analysis is a multivariate data mining technique whose goal is to groups objects (eg., products, respondents, or other entities) based on a set of user selected characteristics or attributes