Ans[1]

Ans[2]- D) 1, 2 and 4

Ans[3]- D) Formulating the clustering problem

Ans[4]- A) Euclidean distance

Ans[5]- B) Divisive clustering

Ans[6]- D) All answers are correct

Ans[7]- A) Divide the data points into groups

Ans[8]- B) Unsupervised learning

Ans[9]- D) All of the above

Ans[10]- A) K-means clustering algorithm

Ans[11]- D) All of the above

Ans[12]- A) Labeled data

Ans[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.

Ans[14]- To measure the quality of a clustering, we can use the average silhouette coefficient value of all objects in the data set.

Ans[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.
Types of Clustering
i) Centroid-based Clustering.
ii) Density-based Clustering.
iii) Distribution-based Clustering.
iv) Hierarchical Clustering.