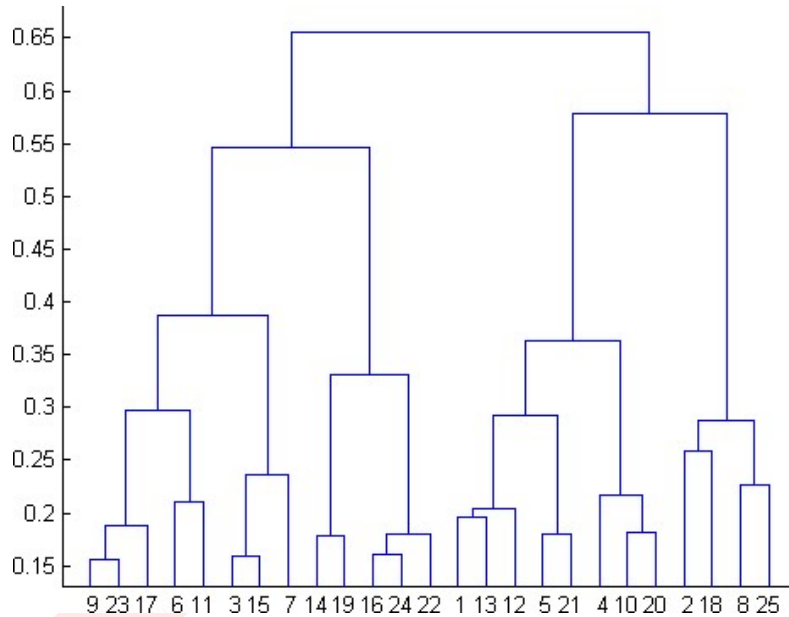


MACHINE LEARNING

1. What is the most appropriate no. of clusters for the data points represented by the following dendrogram:



Ans: 4

2. In which of the following cases will K-Means clustering fail to give good results?
 1. Data points with outliers
 2. Data points with different densities
 3. Data points with round shapes
 4. Data points with non-convex shapes

Ans: 1, 2 and 4

3. The most important part of _____ is selecting the variables on which clustering is based.
Ans: formulating the clustering problem

4. The most commonly used measure of similarity is the _____ or its square.
Ans: Euclidean distance

5. _____ is a clustering procedure where all objects start out in one giant cluster. Clusters are formed by dividing this cluster into smaller and smaller clusters.
Ans: Divisive clustering

6. Which of the following is required by K-means clustering?
Ans: All answers are correct

MACHINE LEARNING

7. The goal of clustering is to-
Ans: Divide the data points into groups
8. Clustering is a-
Ans: Unsupervised learning
9. Which of the following clustering algorithms suffers from the problem of convergence at local optima?
Ans: All of the above
10. Which version of the clustering algorithm is most sensitive to outliers?
Ans: K-means clustering algorithm
11. Which of the following is a bad characteristic of a dataset for clustering analysis-
Ans: All of the above
12. For clustering, we do not require-
Ans: Labeled data
13. How is cluster analysis calculated?
Ans: Finding the data in same in one cluster and different from other cluster. It is find data points using shortest distance method.
14. How is cluster quality measured?
Ans: As small the pure cluster, the score is high.
15. What is cluster analysis and its types?
Ans: Cluster analysis used for unsupervised ML, which is the grouping method on which how closely data points associated.