

Q No: 1

Correct Answer

Marks: 1/1

Which of the following clustering algorithm follows a top to bottom approach?

None of the given options

K-means

Divisive → You Selected

Agglomerative

Q No: 2

Correct Answer

Marks: 1/1

The goal of clustering is to-

Divide the data points into groups → You Selected

All of the given options are correct

Classify the data point into different classes

Predict the output values of input data points

Q No: 3

Correct Answer

Marks: 1/1

The initial metrics distance between B and A is 4, and the distance between C and A is 6. Assuming the cluster BC is formed, what is the distance between the cluster (BC) and A using complete and single link method

5,6

4,5

6,4 → You Selected

4,6

Q No: 4

Correct Answer

Marks: 1/1

Why are linkage methods used?

To measure intra-cluster distance

To link all the clusters

To link the similar clusters

To measure inter-cluster distance → You Selected

Q No: 5

Correct Answer

Marks: 1/1

Which of the following clustering algorithm is most sensitive to outliers?

K- Modes

DBSCAN

K-Means → You Selected

KNN

Q No: 6

Correct Answer

Marks: 1/1

Which of the following statement on Dendrogram is NOT TRUE:

(i) The key to interpreting a Dendrogram is to focus on the height at which any two objects are joined together

(ii) A Dendrogram is a diagram that shows the hierarchical relationship between objects.

(iii) The width of the Dendrogram is the cluster distance measure

(iv) Dendrogram can be plot for Hierarchical clustering

(i)

(iii) → You Selected

All are true

(ii)

Q No: 7

Correct Answer

Marks: 1/1

Elbow graph is drawn between which of the following two parameters?

Number of clusters (K) Vs Manhattan distance

. Number of clusters (K) vs sum of square of distance between the point from one cluster to other

Number of clusters (K) Vs Sum of square error within cluster → You Selected

Number of clusters (K) vs Silhouette score

Q No: 8

Correct Answer

Marks: 1/1

Which of the following linkage methods provides a chain like structure while clustering groups?

Complete Linkage

Single Linkage → You Selected

Average Linkage

Ward Linkage

Q No: 9

Correct Answer

Marks: 1/1

Which of the following uses merging approach?

Density based clustering

Partitioned clustering

Hierarchical clustering → You Selected

Distance based clustering

Q No: 10

Correct Answer

Marks: 1/1

What is the first step in agglomerative hierarchical clustering

Form k clusters

a. Assume each data point is a cluster → You Selected

Reduce the variation within the clusters

None of the above

Q No: 11

Correct Answer

Marks: 1/1

What is the full form of DBSCAN?

Distance-Based Segmented Clustering of Applications with Noise

Density-Based Spatial Clustering of Applications with Noise → You Selected

Distance-Based Spatial Clustering of Applications with Noise

Density-Based Segmented Clustering of Applications with Noise

Q No: 12

Correct Answer

Marks: 1/1

On which data type, we cannot perform cluster analysis?

Multimedia data

Time series data

Text data

All of the given options are correct → You Selected

Q No: 13

Correct Answer

Marks: 1/1

The average intra-cluster distance is given as 4.2 and the average inter-cluster distance is given as 5.7. Calculate the silhouette coefficient.

0.1248

0.4524

0.2632 → You Selected

0.5623

Q No: 14

Correct Answer

Marks: 1/1

Which of the following characteristics are used in determining the optimal set of clusters?

Both compact and distinct clusters → You Selected

Compact clusters

Distinct clusters

Small clusters

Q No: 15

Correct Answer

Marks: 1/1

What is the ideal stopping criteria for the K means algorithm?

Centroids obtained in the consecutive iterations must remain same → You Selected

Centroids obtained in the consecutive iteration must be less separated in position

Centroids obtained in the consecutive iteration must be highly separated in position

At least 50 Iteration