

DM-Spring-2020-Q8-Grade

80% (12/15)



1. Cluster Analysis is

- ☐ A Unsupervised learning technique
- ☒ B Supervised learning technique
- ☐ C I do not know



2. Distance between records and distance between clusters are the same

- ☐ A True
- ☒ B False
- ☐ C I do not know



3. Which of these is the measure of between clusters distance?

- ☐ A Single link
- ☐ B Complete link
- ☐ C Average link
- ☐ D Centroid
- ☒ E All of them
- ☐ F I do not know



4. Single link is

- ☒ A the smallest distance between an element in one cluster and an element in the other
- ☐ B the largest distance between an element in one cluster and an element in the other
- ☐ C the average distance between an element in one cluster and an element in the other
- ☐ D distance between the centroids of two clusters
- ☐ E I do not know



5. Complete link is

- ☐ A the smallest distance between an element in one cluster and an element in the other
- ☒ B the largest distance between an element in one cluster and an element in the other
- ☐ C the average distance between an element in one cluster and an element in the other
- ☐ D distance between the centroids of two clusters
- ☐ E I do not know



6. Which of these is the nested algorithm of clustering?

- ☒ A Hierarchical clustering
- ☐ B k-means
- ☐ C Knn
- ☐ D I do not know



7. Which of these is the unnested algorithm of clustering?

- ☐ A Hierarchical clustering
- ☐ B k-means
- ☒ C Knn
- ☐ D I do not know



8. Which of these is the type of hierarchical clustering?

- ☐ A Agglomerative Methods
- ☐ B Divisive Methods
- ☒ C Both
- ☐ D I do not know



9. This function can be used to perform hierarchical clustering in R

- ☐ A hclust()
- ☒ B cluster()
- ☐ C hierarchical ()
- ☐ D I do not know

- ✓ 10. This function can be used to perform k-means clustering in R
- ☒ A kmeans()
 - ☐ B kclust()
 - ☐ C kmenscl()
 - ☐ D I do not know
- ✓ 11. Do we need to worry about scaling in clustering?
- ☒ A Yes
 - ☐ B No
 - ☐ C I do not know
- ✓ 12. The goal of Cluster Analysis is
- ☒ A That the objects within a group be similar (or related) to one another and different from (or unrelated to) the objects in other groups
 - ☐ B That the objects within a group be different from (or unrelated to) to one another and similar (or related) the objects in other groups
 - ☐ C That the objects within a group be similar (or related) to one another and the same for the objects in other groups
 - ☐ D To classify the object as similar as did in the data
 - ☐ E I do no know
- ✓ 13. Cluster Analysis can be considered as
- ☒ A unsupervised classification
 - ☐ B supervised classification
 - ☐ C supervised regression
 - ☐ D I do not know
- ✓ 14. Exclusive clustering
- ☒ A Assign each object to a single cluster
 - ☐ B Assign each object to more than one cluster
 - ☐ C Assign each object to cluster with the highest number of data points
 - ☐ D I do not know



15. Partial clustering can be considered if

- ☒ **A** some objects in a data set may not belong to well-defined groups
- ☐ **B** assigns every object to a cluster
- ☐ **C** assigns every object to a cluster with some probability
- ☐ **D** I do not know