

# DM-Quiz-2020-Q8

15 Questions

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1. Cluster Analysis is

9/11 ☒ A Unsupervised learning technique

1/11 ☐ B Supervised learning technique

1/11 ☐ C I do not know

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

1/11 ☐ A True

10/11 ☒ B False

0/11 ☐ C I do not know

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

2/11 ☐ A Single link

1/11 ☐ B Complete link

0/11 ☐ C Average link

1/11 ☐ D Centroid

6/11 ☒ E All of them

1/11 ☐ F I do not know

4. Single link is

5/11 ☒ A the smallest distance between an element in one cluster and an element in the other

0/11 ☐ B the largest distance between an element in one cluster and an element in the other

2/11 ☐ C the average distance between an element in one cluster and an element in the other

2/11 ☐ D distance between the centroids of two clusters

2/11 ☐ E I do not know

5. Complete link is

- 0/11 ☐ A the smallest distance between an element in one cluster and an element in the other
- 5/11 ☒ B the largest distance between an element in one cluster and an element in the other
- 1/11 ☐ C the average distance between an element in one cluster and an element in the other
- 3/11 ☐ D distance between the centroids of two clusters
- 2/11 ☐ E I do not know

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

- 6/11 ☒ A Hierarchical clustering
- 1/11 ☐ B k-means
- 2/11 ☐ C Knn
- 2/11 ☐ D I do not know

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

- 2/11 ☐ A Hierarchical clustering
- 4/11 ☒ B k-means
- 3/11 ☐ C Knn
- 2/11 ☐ D I do not know

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

- 3/11 ☐ A Agglomerative Methods
- 1/11 ☐ B Divisive Methods
- 5/11 ☒ C Both
- 2/11 ☐ D I do not know

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

- 5/11 ☒ A hclust()
- 2/11 ☐ B cluster()
- 1/11 ☐ C hierarchical ()
- 3/11 ☐ D I do not know

**10.** This function can be used to perform k-means clustering in R

- 9/11 ☒ A kmeans()
- 1/11 ☐ B kclust()
- 0/11 ☐ C kmenscl()
- 1/11 ☐ D I do not know

**11.** Do we need to worry about scaling in clustering?

- 9/11 ☒ A Yes
- 2/11 ☐ B No
- 0/11 ☐ C I do not know

**12.** The goal of Cluster Analysis is

- 9/11 ☒ 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
- 1/11 ☐ 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
- 0/11 ☐ C That the objects within a group be similar (or related) to one another and the same for the objects in other groups
- 0/11 ☐ D To classify the object as similar as did in the data
- 1/11 ☐ E I do no know

**13.** Cluster Analysis can be considered as

- 9/11 ☒ A unsupervised classification
- 2/11 ☐ B supervised classification
- 0/11 ☐ C supervised regression
- 0/11 ☐ D I do not know

**14.** Exclusive clustering

- 6/11 ☒ A Assign each object to a single cluster
- 2/11 ☐ B Assign each object to more than one cluster
- 1/11 ☐ C Assign each object to cluster with the highest number of data points
- 2/11 ☐ D I do not know

**15.** Partial clustering can be considered if

- 5/11 ☒ **A** some objects in a data set may not belong to well-defined groups
- 0/11 ☐ **B** assigns every object to a cluster
- 2/11 ☐ **C** assigns every object to a cluster with some probability
- 4/11 ☐ **D** I do not know