

1. Which of the following **is** an application of clustering?

Ans :- D

All of the above

2. On which data type, we cannot perform cluster analysis?

Ans :- D

None

3. Netflix's movie recommendation system uses-

Ans :- C

c. Reinforcement learning **and** Unsupervised learning

4. The final output of Hierarchical clustering **is**-

Ans :- B

The tree representing how close the data points are to each other

5. Which of the step **is not** required **for** K-means clustering?

Ans :- D

None

6. Which **is** the following **is** wrong?

Ans :- C

k-nearest neighbour **is** same as k-means

8. Which of the following are true?

1. Clustering analysis **is** negatively affected by multicollinearity of features

2. Clustering analysis **is** negatively affected by heteroscedasticity

Ans :- A

1 only

9. In the figure above, **if** you draw a horizontal line on y-axis **for** y=2.

What will be the number of clusters formed?

Ans :- A

2

11. Given, six points **with** the following attributes:

Which of the following clustering representations **and** dendrogram depicts the use of MIN **or** Single link proximity function **in** hierarchical clustering:

Ans :- A

12 Which of the following clustering representations **and** dendrogram depicts the use of MAX **or** Complete link proximity function **in** hierarchical clustering.

Ans :- C

13. What **is** the importance of clustering?

Ans :-

Clustering simplifies the management of large **or** rapidly growing systems.

Increased performance: Multiple machines provide greater processing power.

If one Intelligence Server **in** a cluster fails, the other Intelligence Servers **in** the cluster can pick up the workload.

14. How can I improve my clustering performance?