MACHINE LEARNING Answersheet

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

➔ Option d. All of the above

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

➔ Option d. NONE

3. Netflix's movie recommendation system uses

➔c. Reinforcement learning and Unsupervised learning

4. The final output of Hierarchical clustering is

➔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?

➔ Option d. NONE

6.Which is the following is wrong?

➔c. k-nearest neighbour is same as k-means

7. Which of the following metrics, do we have for finding dissimilarity between two clusters in hierarchical clustering?

➔d. 1, 2 and 3

8. Which of the following are true?

i. Clustering analysis is negatively affected by multicollinearity of features

ii. Clustering analysis is negatively affected by heteroscedasticity

➔d. None of them

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?

➔ Option a. 2

10.For which of the following tasks might clustering be a suitable approach?

➔ Option is a. .Given sales data from a large number of products in a supermarket, estimate future sales for each of these products

11.

➔ Option Is A

12.

➔Option Is B

13. What is the importance of clustering?

➔ it is Understad the Natural grouping dataset. Partition the data into some group of logical grouping

14. How can I improve my clustering performance?

➔It is apply ICA blind source separation during the graph laplacian embedding step.

Unsupervised feature input data using either RICA And SFT