MACHINE LEARNING

Answers: -

1. b) 1 and 2
2. b) 1 and 2
3. b) False
4. b) 2 only
5. c) 2
6. b) No
7. a) Yes
8. d) All of the above
9. a) K-means clustering algorithm
10. d) All of the above
11. d) All of the above
12. K-Means can be sensitive to outliers, meaning that if there are extreme values in the data that are very different from the rest, they can have a big impact on how the clusters are formed. This can lead to suboptimal results and distorted clusters. To avoid this, it's recommended to remove outliers or use a different clustering algorithm that is less sensitive to outliers.
13. K-Means is a popular clustering algorithm due to its simplicity, scalability, speed, flexibility, and versatility. It can handle large datasets efficiently and can be used for different types of problems. However, it may not always be the best choice for every problem.
14. Yes, K-Means is a deterministic algorithm; meaning that it always gives the same results for the same input data.