Assignment-2

Machine Learning

1. **b) 1 and 2**
2. **b) 1 and 2**
3. **a) True**
4. **a) 1 Only**
5. **b) 1**
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. Is K-means sensitive to outliers?
Ans:- Yes, K-means is sensitive to outliers as mean distance will change due to outliers.

13. **Why is K means better?**
Ans:- 1.Relatively simple to implement
2.Scales to large data set
3.Guarntees convergence
4.Easily adapts to new problems
5.Generalized to different sizes, Shapes and such as elliptical clusters.

14. Is K means a deterministic algorithm?
Ans:- No , In K-means there is a posiibility of different results with different parameters and initial centroid selected randomly.

Statistics

1. **C)Both**
2. **C) 12**
3. **D) All of the above**
4. **C) Both of these**
5. **D) All of these**
6. **B) Data set**
7. **A) 2 or more**
8. **B) Scatterplot**
9. **D) Analysis of variance**
10. **A) Z-score**
11. **C) mean**
12. **D) 400005.2**
13. **B) Mode**
14. **A) Descriptive and inferences**
15. **D) H-L**