**Machine Learning Assigment2**

**SOLUTIONS**

1. 2,3(D)

2. 1,2,4 (D)

3. True(A)

4. 1 only(A)

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 sensitive to outliers:

**Ans: K is sensitive to outliers because the average is easily swayed by maximum values**

13.why is k means better:

**Ans: Because it promises convergence and generalizes well to clusters of different size and shapes such as elliptical clusters**

14. Is K means a deterministic algorithm

**Ans: K is non deterministic in nature. It starts with a random set for data points as initial centroids. This promotes the quality of the resulting clusters running algorithm severally on the same data and could give different results.**