MACHINE LEARNING ASSIGNMENT -2

ANSWERS:

1. (a) 2 Only
2. (d) 1,2 and 4
3. (a) True
4. (a) 1 Only
5. (b) 1
6. (b) No (Will be yes only if random state variable is fixed)
7. (a) Yes, when the cluster centres stop moving between successive iterations
8. (d) All of the above
9. (a) K-means algorithm
10. (d) All of the above
11. (d) All of the above
12. K-means clustering is sensitive to outliers as the means are influenced by extreme values.
13. K means is simplest and easiest algorithm to use and one of the least expensive as well, so if k-means is able to provide clusters of reasonable quality it is the best option.
14. K-means is a non-deterministic algorithm which is essentially due to randomly chosen data points as centroid every time the algorithm is run, and we could get differing results each time.