Machine learning

1.a
2.d
3.a
4.a
5.b
6.b
7.a
8.d
9.a
10.d
11.d
12.Is K sensitive to outliers?
The K-means clustering algorithm is sensitive to outliers, because a mean is easily influenced by extreme values.
K-medoids clustering is a variant of K-means that is more robust to noises and outliers.

13.Why is K means better?
Relatively simple to implement.

Scales to large data sets.

Guarantees convergence.

Can warm-start the positions of centroids.

Easily adapts to new examples.

Generalizes to clusters of different shapes and sizes, such as elliptical clusters

14.Is K means a deterministic algorithm?
No K means is not a deterministic algorithm.The basic k-means clustering is based on a non-deterministic algorithm.
This means that running the algorithm several times on the same data, could give different results