1) Is k sensitive to outliers.
   - yes outlier are different from normal data point, in order to cover them in cluster mean is required to increase so that why k sensitive to outliers, in order to solve that problem outliers should be removed

2) k mean is better.

   - K mean create the cluster on the basis of distance of datapoint, its good for small dataset but when it comes to big dataset, it will not perform good

2) k means is deterministic algorithm
   - k mean randomly select data points as centroids, here same input give different output on different execution at different datapoints, so k mean is deterministic algorithm and we can't determine next step of execution due to more than on path

MCQ Answer

1) b) 1 and 2
2) b) 1 and 2
3) True
4) C) 1 and 2
5) B) 1
6) B) No
7) C) not sure

8)

9) a) k means clustering algorithm

10) d) all of them