## **ASSIGNMENT-2**

**MACHINE LEARNING**

**1.** b)1 and 2

**2.** d) 1, 2 and 4

**3.** a) True

**4.** a) 1 only

**5.** b) 1

**6.** b) No

**7.** a) Yes

**8.**d) All the above

**9.**a)k means clustering algorithm

**10.**d)All the above

**11.**d)All the above

**12.** yes,The k-means algorithm is sensitive to the outliers.

**13.** 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.so k means better.

**14.**No,k means a non-deterministic algorithim.This ,means that running the algorithim several times on the same data ,could give different results.