|  |  |
| --- | --- |
| Question | Answer |
| Q1 | B |
| Q2 | A |
| Q3 | A |
| Q4 | B |
| Q5 | B |
| Q6 | A |
| Q7 | A |
| Q8 |  |
| Q9 | A |
|  |  |

Ans 12:-

The K-means clustering algorithm is sensitive to outliers because a mean is easily influenced by extreme values.

k-Means is a well-studied clustering problem that finds applications in many fields related to unsupervised learning. It is known that k-means clustering is highly sensitive to the outliers. Such outliers can significantly influence the final [cluster configuration](https://www.sciencedirect.com/topics/computer-science/cluster-configuration) and should be removed to obtain quality solutions. In this paper, we study the k-means with outliers’ problem.

Ans 13:

The k-means cluster analysis command is efficient primarily because it does not compute the distances between all pairs of cases, as do many clustering algorithms, including the algorithm that is used by the hierarchical clustering command.