**MACHINE LEARNING**

ANS 1– d)

ANS 2 – d)

ANS 3 – c)

ANS 4 – b)

ANS 5 – d)

ANS 6 – c)

ANS 7 – d)

ANS 8 – a)

ANS 9 – a)

ANS 10 – b)

ANS 11 – a)

ANS 12 – b)

ANS 13 – Clustering is a pre-processing step to group data having similarity. This is very important in case when we don’t have labelled data. Clustering is used for customer segmentation. Clustering is useful for exploring data. If there are many cases and no obvious groupings, clustering algorithms can be used to find natural groupings.  
  
ANS 14 – There are many things that can help to improve the performance of the clustering, for example if we are using K means clustering instead of random picking up the centroids K-means++ should be used for initialisation of centroid, use of probability proportion technique so that K-means would not get much affected by outliers, choosing the right number of K ( number of clusters) using elbow method.