Answers for Machine Learning Assignment 1

1) Option 'B'
2) Option 'D'
3) Option 'D'
4) Option 'A'
5) Option 'B'
6) Option 'D'
7) Option 'A'
8) Option 'B'
9) Option 'D'
10) Option 'A'
11) Option 'A'

Subjective Answers:

15) What is cluster analysis and its types?

Cluster analysis provides a potential relationship and construct systematic structure in large number of variables and observations.

Types:

- Hierarchical clustering: Also known as 'nesting clustering' as it also clusters to exist within bigger clusters to form a tree.
- Partition clustering: Its simply a division of the set of data objects into non-overlapping clusters such that each objects is in exactly one subset.
- Exclusive Clustering: They assign each value to a single cluster.
- Overlapping Clustering: It is used to reflect the fact that an object can simultaneously belong to more than one group.
- Fuzzy clustering: Every objects belongs to every cluster with a membership weight that goes between 0:if it absolutely doesn't belong to cluster and 1:if it absolutely belongs to the cluster.
- Complete clustering: It perform a hierarchical clustering using a set of dissimilarities on 'n' objects that are being clustered. They tend to find compact clusters of an approximately equal diameter.