**MACHINE LEARNING ASSIGNMENT – 2**

**Q1 to Q11 have only one correct answer. Choose the correct option to answer your question.**

1. Movie Recommendation systems are an example of:

**Ans a) 2 Only**

2. Sentiment Analysis is an example of:

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

3. Can decision trees be used for performing clustering?

**Ans. a) True**

4. Which of the following is the most appropriate strategy for data cleaning before performing clustering analysis, given less than desirable number of data points:

**Ans. a) 1 only**

5. What is the minimum no. of variables/ features required to perform clustering?

**Ans b) 1**

6. For two runs of K-Mean clustering is it expected to get same clustering results?

**Ans. a) Yes**

7. Is it possible that Assignment of observations to clusters does not change between successive iterations in K-Means?

**Ans b) No**

8. Which of the following can act as possible termination conditions in K-Means?

**Ans. d) All of the above**

9. Which of the following algorithms is most sensitive to outliers?

**Ans a) K-means clustering algorithm**

10. How can Clustering (Unsupervised Learning) be used to improve the accuracy of Linear Regression model (Supervised Learning):

**Ans. d) All of the above**

11. What could be the possible reason(s) for producing two different dendrograms using agglomerative clustering algorithms for the same dataset?

**Ans. d) All of the above**