**MACHINE LEARNING – WORKSHEET**

**(CLUSTERING)**

Solution:1 – D

Solution:2 – A

Solution:3 – C

Solution:4 – B

Solution:5 – D

Solution:6– C

Solution:7 – D

Solution:8 – A

Solution:9 – A

Solution:10 – B

Solution:11 – A

Solution:12 – B

**Solution:13** – Having clustering methods helps in restarting local search procedure and remove the inefficiency. Clustering helps to determine the internal structure of the data.

This clustering analysis has been used for model analysis, vector region of attraction.

Clustering helps in understanding the natural grouping in a dataset. Their purpose is to make sense to partition the data into some group of logical groupings.

Clustering quality depends on the methods and to identify hidden patterns.

They play a wide role in applications like marketing economic research, weblogs to identify patterns in similarity measures, Image processing, Spatial research.

They are used in outlier detections to detect credit card fraudulence.

**Solution:15** –

1. Memory Tuning
2. Tuning the Number of Mapper or Reducer Tasks
3. Writing a Combiner
4. Using Skewed Joins
5. Speculative Execution