

Sec-1

Ans-1

\* Requirements of clustering in Data mining.

- 1) Scalability we need highly scalable clustering algorithms to deal with large database.
- 2) Ability to deal with different kinds of attributes Algorithms should be capable to be applied on any kind of data such as interval based (numerical) data categorical and binary data.
- 3) dealing with different types of attributes
- 4) Discovering clusters with arbitrary shape.
- 5) Minimal requirement for domain knowledge to determine input parameters.
- 6) Ability to deal with noise and outliers.

\* Different type of clustering methods

- i) Partitioning methods
- ii) Hierarchical clustering

- iii fuzzy clustering
- iv <sup>and</sup> Density - based clustering
- v Model - based clustering