

# **MACHINE LEARNING**

Ans 1). b

Ans. 2) d

Ans. 3) d

Ans. 4) a

Ans. 5) b

Ans.6) d

Ans.7) a

Ans.8) b

Ans. 9) d

Ans.10) a

Ans.11) d

Ans.12) a

Ans13.

Cluster analysis is calculated by measuring the distance between each data point and its centroid, squaring this distance and summing these squares across one cluster

Ans14.

Cluster quality is measured by dissimilarity / similarity metrics in most situation, but there are various other methods to measure the quality of good clustering

1. Dissimilarity / similarity metrics
2. Cluster completeness
3. Ragbag
4. small cluster preservation

Ans15.)

Cluster analysis is a multivariate data mining technique whose goal is to group objects based on a set of user selected characteristics or attributes. It is the basic and most important step of data mining and a common technique for statistical data analysis and it is used in many fields such as data compression, machine learning, pattern recognition, information retrieval etc.

Various types of cluster analysis are as follows:-

- a). Hierarchical cluster analysis
- b). Centroid based clustering
- c). Distribution based clustering
- d). Density based clustering

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