**Unsupervised learning focuses on understanding the data and its underlying pattern.**

True

#### Which learning is the method of finding structure in the data without labels

Unsupervised

#### of a set of points is defined using a distance measure .

Similarity

#### What is a preferred distance measure while dealing with sets

Jaccard

#### Each point is a cluster in itself. We then combine the two nearest clusters into one. What type of clustering does this represent ?

Agglomerative

#### \_\_\_ of two points is the average of the two points in Eucledian Space.

Centroid

#### \_\_\_ measures the goodness of a cluster

Cohesion

#### The \_\_\_\_\_\_ is a visual representation of how the data points are merged to form clusters.

Dendogram

#### A centroid is a valid point in a non-Eucledian space .

False

#### What is the overall complexity of the the Agglomerative Hierarchical Clustering ?

O(N^3)

#### The number of rounds for convergence in k means clustering can be lage

True

#### \_\_\_ is a way of finding the k value for k means clustering.

Cross Validation

#### K Means algorithm assumes Eucledian Space/Distance

True

#### Sampling is one technique to pick the initial k points in K Means Clustering

True

#### What is the R function to apply hierarchical clustering to a matrix of distance objects ?

hclust()

#### \_\_\_\_\_\_\_\_\_\_\_\_\_ is when points don't move between clusters and centroids stabilize.

Convergence

#### What is the R Function to divide a dataset into k clusters ?

kclusters()