


# Quiz 3 -ITA5007 Data Mining and Business Intelligence


Syllabus: Topics covered after CAT-2

Points: 10/10

✓ **Correct** 1/1 Points

1. Which option is suitable for complete linkage clustering
- A) choose the maximum distance to update the distance matrix
  - B) choose the maximum value in the matrix to form the cluster 
  - C) choose the minimum distance to update the distance matrix
  - D) choose the minimum value in the matrix to form the cluster
- ☐ Option A and Option B
- ☐ Option C
- ☐ Option C and Option D
- ☒ Option A and Option D

✓ **Correct** 1/1 Points

2. Typical partitioning methods of clustering include 
- ☒ k - means , k - medoids

- ☐ single , complete linkage
- ☐ single , average linkage
- ☐ k - means , single , complete , average linkage

✓ **Correct** 1/1 Points

3. Rearrange the following

- a)for all the continuous values run the hierarchical clustering using complete linkage and Euclidean distance
- b)remove all measurements with missing records
- c)make sure to normalize the measurements
- d)examine the dendrogram for the number of clusters



- ☐ a-b-c-d
- ☒ b-c-a-d
- ☐ d-c-b-a
- ☐ c-b-d-a

✓ **Correct** 1/1 Points

4. The hierarchical method of clustering can be \_\_\_\_\_ or \_\_\_\_\_. 

- ☐ long , short
- ☐ supervised , unsupervised
- ☐ simple , complex
- ☒ agglomerative , divisive

✓ **Correct** 1/1 Points

5. Clustering is a dynamic field of research in data mining , that is related to \_\_\_\_\_ in machine learning.



- ☒ unsupervised learning
- ☐ supervised learning
- ☐ both
- ☐ none

✓ **Correct** 1/1 Points

6. A cluster is a collection of data objects that are \_\_\_\_\_ to one another within the same cluster and are \_\_\_\_\_ to the objects in other clusters.



- ☐ dissimilar , similar
- ☐ similar , similar
- ☒ similar , dissimilar
- ☐ dissimilar , dissimilar

✓ **Correct** 1/1 Points

7. A time series data set consists of sequence of \_\_\_\_\_ values obtained over repeated measurements of \_\_\_\_\_ .



- ☒ numeric , time
- ☐ categorical , time
- ☐ numeric , space

☐ ordinal , time

✓ **Correct** 1/1 Points

8. Trend or \_\_\_\_\_ movements in time series indicate the general direction in which a time series graph is moving over time .



☐ short - term

☒ long - term

☐ both

☐ none

✓ **Correct** 1/1 Points

9. Expand AR in time series forecasting .



☐ Augmented Reality

☒ Auto Regression

☐ Auto Reality

☐ Augmented Regression

✓ **Correct** 1/1 Points

10. Financial data gathered on 21 firms in the pharmaceutical industry are available in the file Pharmaceuticals.xls. For each firm, the following variables are recorded:

1. Market capitalization (in billions of dollars)
2. Price/earnings ratio



- 3. Return on equity
- 4. Estimated Revenue Growth
- 5. Location of firms' headquarters

Choose the variables (1-5) to cluster the firms

☐ 1,2,3,4,5

☐ 2,3,4,5

☒ 1,2,3,4

☐ 1,3,4,5

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