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NMCA-E13

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 214431

Roll No.

M.C.A.
(SEM-IV) THEORY EXAMINATION 2014-15
DATA WAREHOUSING & MINING

Time : 3 Hours]

[Total Marks : 100

Note: Attempt all questions. All questions carry equal marks.

1. Attempt any four parts 5×4=20
 - a) What is Data Warehouse? Explain the two tier architecture of Data Warehouse.
 - b) Explain Data Marts with its advantages.
 - c) Draw a three tiered second generation client/server computing model. What are the main functions of server?
 - d) What do you mean by data cleaning? Describe important types of data cleaning approaches.

- e) Explain Clustering and Regression with example.
2. Attempt any four parts 5×4=20
- a) Explain Data Cube aggregation model.
- b) Describe various phases of data transformation. List the important types of transformation engines and explain any one of them.
- c) Explain these terms.
- i) MOLAP
- ii) RLOP
- d) What is Z-score normalization?
- e) What is the role of Statistics in Data Mining.
3. Attempt any two parts : 10×2=20
- a) Why business organizations consider data warehousing as a critical need? Write and explain various phases involved in building of data warehouse.
- b) What is decision tree? Explain it with an example. Describe the ID3 decision tree algorithm in brief.
- c) Write and briefly explain twelve guidelines for OLAP selection.
4. Attempt any two parts : 10×2=20
- a) What is neural network? How does this make prediction? Describe the back propagation in neural network.
- b) Compare hierarchical clustering and non-hierarchical clustering algorithms. Explain the advantages and disadvantages of them over each other.
- c) Distinguish between the Supervised & Un-supervised Learning with an example.
5. Describe any two parts: 10×2=20
- a) Multimedia Databases.
- b) Role of genetic algorithm in data mining.
- c) Web Data mining.

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