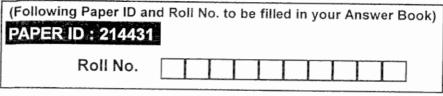
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NMCA-E13



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.

Attempt any four parts

5×4=20

- a) What is Data Warehouse? Explain the two tier architecture of Data Warehouse.
- b) Explain Data Marts withits 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.
- 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.
- 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.
- Compare hierarchical clustering and non-hiearchial clustering algorithms. Explain the advantages and disadvantages of them over each other.
- 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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