

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

PAPER ID : 1452

Roll No.

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MCA

(SEM IV) EVEN SEMESTER THEORY EXAMINATION,
2009-2010

DATA WAREHOUSING & MINING

Time : 3 Hours

Total Marks : 100

Note : (i) Attempt ALL the questions.

(ii) All questions carry equal marks.

1. Attempt any four parts of the following : (4x5=20)

(a) What do you mean by data mining ?
Differentiate between dataware house and data mining.

(b) What are different sources of information ?
Explain the term data, Information and Knowledge with suitable example.

(c) What is data cleaning ? What are the different data cleaning approaches explain ?

(d) Explain in brief wavelet transformation.

(e) Explain data cube aggregation model.

(f) Explain the concept of statistics in data mining application in brief.

2. Attempt any two of the following : (2x10=20)
- (a) Explain the Dataware House Concept. Explain the two tier dataware house architecture and its advantages.
 - (b) Explain the concept of Client/Server Computing Model. Explain the various generation of Client/Server model in details.
 - (c) Explain the concept of Distributed Dataware houses and What are the advantages of Distributed Dataware house ?
3. Attempt any two parts of the following : (2x10=20)
- (a) Explain OLAP model and its advantages. Explain the various OLAP schema and operations.
 - (b) What are the different types of reports ? Explain each one.
 - (c) Explain Data Marts. What are the different types of Data Marts ? Give advantages of data marts over dataware houses.
4. Attempt any two parts of the following : (2x10=20)
- (a) How are Antecedent and Consequent identified in sequence association rule mining explain ?
 - (b) Compare and contrast the production rules obtained from decision trees with the association rules.
 - (c) What is Clustering and its attributes explain ? Explain K-Mean Clustering Algorithm.

5. Attempt any two parts of the following : (2x10=20)
- (a) What is Data Visualisation and explain various data visualisation techniques. What is a Q-Q Plot ? What data assumptions can you check with it ?
 - (b) What is Web mining ? What are the classification factors of web mining ? What are the access limitations in web mining, Explain it.
 - (c) What is Meta data ? What are the major components of Meta data ? What is the role of Meta data in Dataware house ?

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