

(Following Paper ID and Roll No. to be filled in your Answer Book)	
PAPER ID : 1042	Roll No. <input type="text"/>

B.Tech.

EIGHTH SEMESTER EXAMINATION, 2005-2006

DATA MINING AND WAREHOUSING

Time : 3 Hours

Total Marks : 100

- Note :
- Attempt ALL questions.
 - All questions carry equal marks.
 - In case of numerical problems assume data wherever not provided.
 - Be precise in your answer.

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1. Attempt *any four* parts of the following : (5×4=20)
- What is a Data Warehouse ? How does it differ from a Database ?
 - What steps are involved in the acquisition of data for a Data Warehouse ?
 - What are the difficulties in implementing Data Warehouses ?
 - What is the multidimensional data model ? How is it used in Data Warehousing ?
 - Define the terms :
 - OLAP
 - ROLAP
 - MOLAP
 - DSS
 - Datamarts
 - Describe the characteristics of Data Warehouse. How is the concept of relational view related to Data Warehouse ?

2. Attempt *any four* parts of the following : (5x4=20)
- (a) Describe the benefits and drawbacks of a source-driven architecture for gathering of data at a data-warehouse as compared to a destination-driven architecture.
 - (b) What are data warehouse schemes ?
 - (c) What do you understand by Data cleaning and Backflushing in context of Data warehouse ?
 - (d) What are the typical functionalities of a Data warehouse ?
 - (e) List the open issues and research problems in Data warehousing.
 - (f) How would you differentiate between a Data warehouse and Views ?
3. Attempt *any two* parts of the following : (10x2=20)
- (a) What is Business Analysis ? How would you do so for an organization ?
 - (b) Describe the capabilities of Online Analytical Processing.
 - (c) What is the role of Artificial Intelligence in Data Mining ?
4. Attempt *any two* parts of the following : (10x2=20)
- (a) Explain the concept of Datamining. What are the goals or tasks it attempts to facilitate ?
 - (b) What are the different phases of knowledge discovery from databases ? Describe a complete application scenario in which new knowledge may be mined from an existing database of transactions ?
 - (c) Explain the process of Clustering in Datamining.

5. Attempt *any two* parts of the following : (10x2=20)
- (a) What are the mistakes that Data warehousing managers should avoid ?
 - (b) What are Dr. E.F. Codd's 12 guidelines for OLAP ?
 - (c) What do you understand by Data Visualization ? What are the common techniques of Data Visualization ? What are the characteristics of good Visualization ?

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