MCA/M09

6250

7

Data Mining and Warehousing

Paper: MCA-402

Time: Three Hours] [Maximum Marks: 50

Note: Attempt FIVE questions in all, selecting ONE question from each unit.

UNIT-I

1. (a) What is data warehousing? Describe the various characteristics of data warehouse and why is it important for decision support?

(b) How do data warehousing OLAP and data mining complement each other?

- 2. (a) What is meant by 'Multidimensional Data Model'? How multidimensional data can be best represented?
 - (b) Give comparisons of the following Data Warehouse Schemes:-Star and Snowflake Schemes.
- 3. (a) What are the characteristics of the Data in a Data Warehouse? Δ
 - (b) What are different components of a Data Warehouse? Explain with the help of a diagram.
- 4. Explain the following:
 - (a) Tools for Data Warehousing
 - (b) Methods for the implementation of Data Warehouse Systems.

UNIT-II

3.	(a)	Data Mining is a multi-disciplinary field. Discuss.	
	(b)	What is difference between data mining and a normal query environment? What can data mining do that SQL can't? Discuss.	?
6.	(a)	"All patterns are not interesting". Comment. What makes a pattern interesting?	21
	(a)	What is difference between descriptive mining and predictive mining? Explain various methods for concept description.	
7.	Exp	ain the following processes:-)
	Data	cleaning, Data Integration and Transformation, Data reduction	
		UNIT-III	
8.	(a)	What is 'Association Rule'? What is the difference between support and confidence of a rule?	
	(b)	What is meant by 'Association Rule Mining'? Explain by presenting an example of Market Basket Analysis.	_
9.	(a)	How can you guide the mining procedure to discover interesting associations?	
e .	(b)	Explain methods for mining association rules in :-	
		(i) Mining multilevel association rules from transaction databases.	1
		(ii) Mining multidimensional association rules from relationa	1
		databases.	7
10.	Write short notes on the following: $5\times 2=10$		
	(a)	Applications of Data Mining	
	(b)	Tools for data mining.	