10/5/13FM

Reg. No.:	3.3		

Question Paper Code: 65023

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Elective

Information Technology

XCS 011 — DATA MINING AND DATA WAREHOUSING

(Common to : 5 Year M.Sc. Computer-Technology/5 Year M.Sc. Software Engineering)

(Regulation 2003)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. List any four query tools.
- 2. Give example for concept learning
- 3. What is the need for data cleaning?
- 4. Write the strength of decision tree methods.
- 5. Define data mart.
- 6. Write down the application of data warehousing.
- 7. What is RAID?
- 8. Write the security method of data warehouse.
- 9. List the data warehouse components.
- 10. Write tuning of data warehouse.

PART B — $(5 \times 16 = 80 \text{ marks})$

- 11. (a) (i) Explain the application of Data mining in Marketing with example. (8)
 - (ii) Illustrate Data mining Vs Query tools.

(8)

Or

(b) Illustrate the principles of self learning computer systems with example.

12.	(a)	Suppose that a data warehouse consists of the four dimensions, date, spectator, location, and game, and the two measures, count and charge, where charge is the fare that a spectator pays when watching a game on a given date. Spectators may be students, adults, or seniors, with each category having its own charge rate. (8)					
		(i) Draw a star schema diagram for the data warehouse.					
		(ii) Starting with the base cuboid [date, spectator, location, game what specific OLAP operations should one perform in order to li the total charge paid by student spectators at GM Place in 2004? (st				
		Or					
	(b)	Discuss the approaches for mining of multi level Association rules fro transaction data base. Give relevant example.	m				
13.	(a)	(i) With a neat sketch discuss the data warehouse architecture. ((8)				
		(ii) Discuss the various types of meta data.	(8)				
		Or					
	(b)	Write short notes about the following;					
		(i) Meta data systems	(8)				
		(ii) Data warehouse process managers.	(8)				
14.	(a)	Illustrate about the Service level agreement of data warehouse.					
		Or					
	(b)	Illustrate about the Backup and recovery of data warehouse systems.					
15.	(a)	Illustrate about the salient features of data warehouse.					
		Or					
	(b)	Briefly describe the following with suitable examples.					
		(i) Capacity planning of data warehousing	(8)				
		(ii) Testing the data warehouse.	(8)				