

**IV B.Tech I Semester Regular Examinations, November 2005**  
**DATA MINING AND DATA WAREHOUSING**  
**(Information Technology)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) Discuss Data Warehouse schemas. Draw the sketch of a retail sales analysis star schema.  
(b) What is Fact Data? Discuss the characteristics of fact versus reference data.  
[8+8]
2. Describe the following options while designing FACT table:  
(a) Identifying significant historical period.  
(b) Sampling for detailed data.  
(c) Column selection. [6+4+6]
3. What are the different architectural options available to design server hardware for a data warehouse system. [16]
4. (a) Why is it important to get all the security and audit requirements clearly documented ?  
(b) "Data movement is an expensive process" Justify [8+8]
5. Explain planning requirement for Database and non-database sizing. [16]
6. What is a DECISION TREE? With an example, Explain about the CART, ID3 algorithms. Give comparison between CART & ID3 algorithm. [3+9+4]
7. (a) What is concept hierarchy? How is it related to web mining? [3+5]  
(b) Discuss the principles underlying text clustering. [8]
8. (a) Discuss the major features of the timeweaver algorithm.  
(b) Describe the working of the SPADE algorithm. [8+8]

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