(CSE/IT 423)

IV/IV B.Tech. DEGREE EXAMINATION, APRIL 2005.

Second Semester

ADVANCED DATABASE MANAGEMENT SYSTEMS

Time : Three hours   Maximum : 70 marks

Answer Question No. 1 compulsorily.

$(1 \times 14 = 14)$

Answer ONE question from each Unit.

$(4 \times 14 = 56)$

All questions carry equal marks.

1. (a) What are the advantages of query optimization?

    (b) Define Materialization.

    (c) What is query processing plan?

    (d) What is location transparency?

    (e) What are advantages of distributed computing system?

(f) What is replication transparency?

(g) What is horizontal fragmentation?

(h) What is oracle?

(i) What is DDL? Give its commands.

(j) What is DCL? Give its commands.

(k) What is data warehouse?

(l) What is meant by flexible reporting?

(m) What is a special schedule?

(n) What is difference between integrity and security?

UNIT I

2. (a) What is meant by term heuristic optimization? Discuss the main heuristics that are applied during query optimization.

Or

(b) Discuss the time stamp ordering protocol for concurrency control. How does strict time stamp ordering differ from basic time stamp ordering?

2 (CSE/IT 423)

UNIT II

3. (a) Explain the features of distributed data bases.

(b) Describe the two–phase commit protocol for multi–database transactions.

Or

(c) Explain the components of distributed database management system (DDBMS's).

(d) What is meant by transaction rollback? Explain.

UNIT III

4. (a) What are the origins of the object oriented approach.

(b) Discuss the concept of polymorphism and operator overloading.

Or

(c) Write notes on :

(i) Inheritance

(ii) Data Definition Language (DDL)

(iii) Relational database.

3   **(CSE/IT 423)**

UNIT IV

5. (a) Explain the characteristics of warehouse, devide them into functionality of warehouse and advantages users derive from it.

(b) List the difficulties in implementing a data ware house.

Or

(c) What are the goals or tasks that data mining attempts to facilitate?

(d) What is data mining? How does data mining technology relate to data warehouse technology?

———

4   (CSE/IT 423)