

C 33176



Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION  
AUGUST 2007**

Computer Science

CS 202 – DATABASE MANAGEMENT SYSTEMS

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Section A**

*Answer any **five** questions.  
Each question carries 8 marks.*

1. What is DBMS? Explain its features.
2. Draw an ER diagram for Office Automation System. Explain each step in detail.
3. How will you use DBMS as a programming tool? Discuss.
4. Write a short note of SQL in the following features: (i) Query (ii) Reporting.
5. Name any *four* operators used in SQL expression and explain each giving examples.
6. Discuss Object modeling techniques.
7. Explain the advantages and disadvantages of distributed systems.

(5 x 8 = 40 marks)

**Section B**

*Answer any **four** questions.  
Each question carries **10** marks.*

8. Compare the different data models. List their advantages and disadvantages.
9. Explain in detail the **tuple** relational calculus with suitable examples.
10. Describe the problems encountered in **concurrency**.
11. What is normalization? Explain **3NF** with an example.
12. Explain Object Oriented Database Management Systems.
13. Explain recovery process in distributed systems.

(4 x 10 = 40 marks)