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Name.....

Reg. No......

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION
AUGUST 2008**

Computer Science

CS 202 —DATABASE MANAGEMENT SYSTEM

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer any **five** questions.*

Each question carries 8 marks.

1. In what ways relational model is better than hierarchical and network models ? Discuss it using suitable examples.
2. Construct an ER diagram for library management in your college.
3. Describe the process of normalization using join dependencies.
4. What is View ? How it is different from a table ? Give the command to create a View.
5. Discuss the different issues of lock-based protocols during the management of **concurrency** control.
6. Explain object modeling techniques.
7. Explain distributed database system and centralized database system.

(5 x 8 =40 marks)

Part B

*Answer any **four** questions.*

Each question carries 10 marks.

8. What is the need for using a data base system ? Compare this with traditional file system in detail.
9. Explain the fundamental operations of relational calculus with suitable examples.
10. What is aggregation ? Explain the usefulness of aggregation with help of examples.
11. With proper example. Explain **BCNF**.
12. How **OODBMS** is better than **RDBMS** ? Explain giving examples.
13. Explain the implementation details of commit protocols with respect to distributed databases.

(4 x 10 = 40 marks)