C 17236

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, AUGUST 2006

Computer Science

CS 202—DATABASE MANAGEMENT SYSTEMS

(2005 admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

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

1. Explain the architecture of Database System with a neat diagram.
2. **How do you define and manipulate data in hierarchical model ?**
3. **Discuss the structure of relational databases.**
4. **Explain the logical implication of dependencies.**
5. Define the intent locking protocol. Explain the purpose of that protocol.
6. Discuss Object structure of **OODBMS.**
7. Explain **location.independence,** fragmentation independence and replication independence.

(5 x 8 = 40 marks)

Part B

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

8. **Compare Hierarchical, Network and Relational approaches giving suitable examples.**
9. **What is relational algebra ? Explain the special relational and traditional set operators. Give examples.**
10. **Explain BCNF in detail.**
11. **Discuss integrity and security.**
12. How **OODBMS** is better than **RDBMS ?** Explain giving examples.
13. **Explain the integrated systems in distributed databases.**

(4 x 10 = 40 marks)