

MCA-755

**MCA-05/
PGDCA-04**

**M.C.A. DEGREE/P.G.D.C.A. EXAMINATION –
JUNE, 2010.**

First Year

INTRODUCTION TO DBMS

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What are the advantages of DBMS over traditional file processing system?
2. Explain relational data model.
3. Define :
 - (a) Super key
 - (b) Candidate key
 - (c) Composite primary key.
4. What is functional dependency?
5. Distinguish between orderby and groupby clause.
6. Explain the concept of generalization.
7. What are the advantages of distributed database?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Discuss in detail about the various data models in DBMS.
9. What is normalization? Explain second normal form and third normal form with example.
10. Briefly explain the single row functions and group functions in SQL.
11. What are the basic relational algebra operations?
12. With suitable example explain the difference between subquery and join in SQL.
13. What are the features of OODBMS?
14. Elaborate client/server database.
