

Roll No.

Exam Code : J-19

Subject Code—0234

M.B.A. EXAMINATION

(Batch 2009 to 2017)

(Third Semester)

DATABASE MANAGEMENT

ITM-321

Time : 3 Hours

Maximum Marks : 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

1. Define Database Schema. Explain it with example.
2. Distinguish between primary and super keys.
3. Discuss the activities of different database users.

4. Explain the importance of avoiding NULL values in a database.
5. Explain the differences between physical level, conceptual level and view level of data abstraction.
6. Specify and explain various structural constraints of relationship type.
7. Describe online databases.
8. Explain data dependency with example.
9. Explain shadow page recovery.
10. What is Normalization ? Explain its need. Why 4NF is a normal form more desirable than BCNF ? Why ?

Section B

Note : Attempt all the questions.

11. Discuss in detail about primary file organization.

Or

Explain the various ways in which concurrency control can be implemented in a database. **12**

12. Discuss in detail about various normal forms.

Or

Write and explain optimistic concurrency control algorithm. **12**

13. Differentiate specialization and generalization.

Or

Explain domain constraints and referential integrity constraints. **11**