

**II Semester B.Sc. (I.T.) Examination, June/July 2010**  
**RDBMS**  
**(Freshers)**

Time : 3 Hours

Max. Marks : 75

***Instruction** : Answer **all** questions from Part – A, and answer **any 5** questions from Part – B.*

PART – A

**(10×2+5×1=25)**

1. Explain DBMS.
2. What is Data Redundancy ?
3. What is an Entity ?
4. What is Referential integrity ?
5. What is Attribute ?
6. What is Tuple ?
7. What is Relational Algebra ?
8. What is Relational Calculus ?
9. What is Normalization ?
10. What do you mean by Atomicity ?
11. Explain the following :
  - a) Serializability
  - b) Recoverability
  - c) DML commands
  - d) DDL commands
  - e) Rollback.

**P.T.O.**

PART – B

**(5×10=50)**

1. What is Data model ? Write a short note on various types of data models.
  2. Explain Tuple Relational Calculus.
  3. What is Normalization ? Explain various methods of normal forms.
  4. Explain the Buffer Management.
  5. Explain Cost-Based plan selection with example.
  6. Explain the architecture for a Locking Scheduler.
  7. Explain Parallel systems.
  8. Explain different Database security levels.
-