

**BS 14 (NS)**

**I Semester B.Sc. (I.T.) Examination, June/July 2010  
DATA BASE MANAGEMENT SYSTEMS**

Time : 3 Hours

Max. Marks: 75

**PART – A**

Answer all the questions

**(10×2+5×1=25)**

1. Explain strategic information.
2. What is meant by data processing ?
3. Write any two advantages of Electronic Data Processing.
4. What is difference between physical and logical file organisation ?
5. Explain conceptual schema.
6. Write any two advantages of DBMS.
7. Define validating attributes.
8. What do you mean by operationally challenged workstations ?
9. Write any four rules of functional dependencies.
10. Define Encapsulating logic.
11. Explain the following terms.
  - a) Operational information
  - b) Normalisation
  - c) File organisation
  - d) Relational algebra
  - e) Dynamic SQL.

**P.T.O.**

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**PART – B**

Answer **any five** of the following questions

**(5×10=50)**

1. What is Data Model ? Explain the different types of Data Models in details.
  2. Explain Entity Relationship (E-R) Diagram in detail.
  3. Explain the major components of DBMS.
  4. Briefly explain the basics of Relational Algebra with an examples.
  5. Explain a multiway tree of order M.
  6. Explain the properties of Relational Tables.
  7. Write a note on Boyce-Codd Normal form.
  8. Explain Codd rules with the help of suitable example.
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