BCA/D-16
FUNDAMENTALS OF DATA BASE SYSTEM
PAPER-BCA-235

Time Allowed: 3 Hours   Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question
1. Attempt all the following :
    (a)   Entity
    (b)   Attribute
    (c)   Secondary key
    (d)   Database Designer
    (e)   Inconsistency
    (f)   Data and Information
    (g)   Domain
    (h)   Binary Relationship.
Unit-I
2. (a)   What do you mean by Database System? What are advantages and disadvantages of Database System?

    (b)   What are the disadvantages of File System?
3. (a)   What are the Components of Database?
    (b)   What are the duties of DBA?

Unit-II

4. (a)   What do you mean by data independence? Explain various types of data independence.

    (b)   Describe the Architecture of a Database System.
5. (a)   Explain Classification of database system.
    (b)   Differentiate between Schema and subschema.

Unit-III

6. What do you mean by data model? Explain various types of data models.

7. (a)   What is E-R diagram? Draw E-R Diagram for a company database.
    (b)   What is an entity? Explain the term weak and strong entity.

Unit-IV

8. (a) What is relationship between tables and views? Explain with example.

   (b) Differentiate between. Hierarchical and Network Data Model.

9. Explain Domain constraint, Key constraint, Entity integrity and Referential sintegrity.