BCA / D-15 FUNDAMENTALS OF DATABASE SYATEM PAPER-BCA-235

Time Allowed: 3 Hours Maximum Marks: 80

Note: Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

- 1. Attempt all the following:
 - (a) Cardinality
 - (b) Ternary relationship
 - (c) Entity set
 - (d) Primary key
 - (e) Data aggregate
 - (f) Redundancy
 - (g) End-users
 - (h) View.

UNIT-I

- 2. (a) What do you mean by Database? What are the advantages or objectives of a Database?
 - (b) What are the features of qualities of Information?
 - 3. (a) What do you mean by Database Management System? What are the functions of DBMS?
 - (b) What are the disadvantages of File System?

UNIT-II

- 4. (a) Explain the term Data independence. Explain Physical and Logical data independence by giving example.
 - (b) Explain client/server architecture of Database system?
 - 5. (a) Explain various objectives of DBMS architecture.
 - (b) Explain the concept of Schema and Instance of Schema.

UNIT-III

- 6. What is Data model? Compare network, Hierarchical and Relational models.
- 7. (a) What do you mean by Entity Relationship (ER) model? Explain with suitable example.
 - (b) What is an Attribute? Explain different types of attribute.

UNIT-IV

- 8.
- (a) What are the various properties of a Relation?(b) What do you mean by Constraints? Explain.What do you mean by Integrity? Discuss the Entity integrity and Referential integrity constraints with example. 9.