

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-4<sup>th</sup>)**DATABASE MANAGEMENT SYSTEM**

Subject Code : BC-402 (2007 to 2010 Batch)

Paper ID : [B0216]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students has to attempt any FOUR questions.

**SECTION-A**

1. Write briefly :

- a. What do you mean by Database?
- b. Define physical data independence.
- c. List various symbols used for E-R Modelling.
- d. Briefly explain the use of network model.
- e. List out various terms used in Relational Data Model.
- f. What is the use of 'Selection' operation in relational algebra?
- g. What do you mean by multi-valued dependency?
- h. What do you mean by concurrency?
- i. List out features of distributed database.
- j. List out various responsibilities of Database Administrator.

## SECTION-B

2. What do you mean by DBMS? Explain three level Architecture of database system.
3. Compare the features of Relational, Network and Hierarchical data models.
4. What is purpose of Join operation in relational algebra? Explain different types of joins with suitable examples.
5. What is the purpose of normalization? Discuss different types of normal forms with suitable examples.
6. What do you mean by Database Security? Discuss various mechanisms used for securing database.
7. What do you mean by Distributed Database? Discuss the structure of Distributed Database.

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