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BCA , MAY –2014
DATABASE MANAGEMENT SYSTEM
Paper Code (BC-402)
Paper Id. [B0216]

Time: 03 Hours

Maximum Marks: 60

Instruction to Candidates:

- 1) Section – A is **Compulsory**.
- 2) Attempt any **Four** questions from Section – B.

Section – A

Q1)

(10 x 2 = 20)

- a) What do you mean by Data Base Management System?
- b) Define Logical Data Independence.
- c) Describe Conceptual level in Three Schema Architecture.
- d) Explain various symbols used in ER Models.
- e) Explain the use of Network Model.
- f) What is Project operation in Relational algebra?
- g) What do you mean by Normalization?
- h) Define Integrity in DBMS.
- i) **Difference between Commit and Rollback.**
- j) What do you mean by distributed Data Base?

Section – B

(4 x 10 = 40)

Q 2) a) What do you mean by Data Base Administrator?

b) What are the Advantages of using DBMS?

Q 3) What do you mean by Data Model? Explain Network model in detail.

Q 4) What is Relational Algebra? Explain various Join operations with examples.

Q 5) Write note on the following:

- a) Relational Calculus
- b) Relational Model

Q6) What do you mean by Concurrency? Describe various Concurrency controls in a DBMS.

Q7) Discuss Design Techniques of database system. What are the advantages of each technique?

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