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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)

 $(10 \times 2 = 20)$ 

- 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

 $(4 \times 10 = 40)$ 

- Q 2) a) What do you mean by Data Base Administrator?
  - b) What are the Advantages of using DBMS?
- Q3) 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?

END
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