

Roll No.

Total No. of Questions : 07]

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BCA (Sem. -4th)
DATA BASE MANAGEMENT SYSTEM

SUBJECT CODE : BC-402

Paper ID : [B0216]

[Note : Please fill subject code and paper ID on OMR]

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 × 2 = 20)

- a) Differentiate logical and physical database.
- b) Define the function of foreign key.
- c) What is SQL dependencies?
- d) What is entity integrity constraints?
- e) What is hierarchical model?
- f) What do you mean by relational algebra and relational calculus?
- g) What do you mean by concurrency in database protection?
- h) Define term data and information.
- i) What is tuple variable?
- j) What is data replication?

Section - B

(4 × 10 = 40)

Q2) What is the concept of database system? Explain in details the responsibilities of Database Administrator.

Q3) What are different data models? Explain in detail?

Q4) What is normalization? What are different normalization techniques? Explain any one in detail.

Q5) What is need of concurrency control? How it is achieved in database system?

Q6) What is distributed database? Explain the structure of distributed database.

Q7) Write short notes on.

(a) Data Base integrity and control.

(b) Relational Data base.

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