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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-4th)

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

I. Answer briefly :

- a) What is a schema?
- b) What is a DBA?
- c) What is the major role of a DBA?
- d) What is a candidate key?
- e) What is the difference between a schema and a subschema?
- f) What do you understand by transaction committing?
- g) What is a logical and physical data base?
- h) What is data integrity?
- i) Give example using SQL for the retrieval using ANY.
- j) Explain the delete statement of SQL with example.

SECTION-B

- 2) What are the various objectives of a data base system? Explain the architecture for a distributed data base.

- 3) Explain why locks are necessary in the concurrent operations on the database.
- 4) What are the first three normalization in relational data base model? Explain them with example.
- 5) What are the three levels of the Architecture for the data bases? Explain with example.
- 6) Given the following relations

Supplier(s#, Sname, City); S# as a key

Parts(P, Pname, Weight, Quantity); P as a key

Supply(S, P, Quantity); S, P as key

relational algebra to answer the following queries

- (i) Find all part numbers being supplied
 - (ii) Find part numbers and part names of parts held in quantity of less than 25.
 - (iii) Find supplier names of suppliers who supply part number 3.
- 7) What are the security requirements for a Database? Explain.