

Printed Pages : 4

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NMBAIT-01

(Following Paper ID and Roll No. to be filled in your
Answer Book)

Paper ID : 270311

Roll No.

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MBA

(SEM. III) THEORY EXAMINATION 2015-16

DATABASE MANAGEMENT SYSTEM

[Time : 3 hours]

[Total Marks : 100]

Note : The question paper contains three parts. Attempt all parts.

SECTION-A

1. Attempt **all** of the following : (2×10=20)
 - (a) Who is DBA and write down his responsibilities?
 - (b) A key is a “minimal” super key justify?
 - (c) What kind of capabilities should be exhibited by DBMS?
 - (d) Give six basic operators of relational algebra?
 - (e) What are spurious tuples?

- (f) "Bad relational schema may lead to difficulties in implementation of DBMS". Give the remedy.
- (g) What do you mean by multi-valued dependencies?
- (h) How lost data can be recovered?
- (i) What is security audit?
- (j) How can we access data remotely in Relational Database Management System?

SECTION-B

Attempt **any five** questions from this section. (10×5=50)

- 2. What are the three data anomalies that are likely to occur as a result of data redundancy? Can data redundancy be completely eliminated in a database?
- 3. Explain any five SQL commands with suitable examples.
- 4. What is a relational database? When can we say that a database implementation is fully relational?
- 5. "DBMS is a collection of programs that enable users to create and maintain a database with security" justify the statement with diagram and features of DBMS.

6. "During normalization process loss decomposition is required" why?
7. What is a view in SQL and how is it defined? Discuss the problems that may arise when one attempts to update view. How views are typically implemented.
8. Elaborate the concept of data warehousing and data mining?
9. What is remote access? What is the difference between private, public and shared data?

SECTION-C

Case study

(15×2=30)

Consider the following database scheme and give the SQL DDL and DML commands as asked in the questions below.

Employee(employee_name, street, city)

Works(employee_name, company_name, salary)

company(company_name, city)

Manages(employee_name, manager_name)

Questions:

- (a) Write SQL commands to create all the Four tables by marking primary keys.
- (b) Enter Five values in all the attributes of all the four tables.
- (c) Find the name of all the employee living in city "delhi".

—x—