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B.Tech. (CSE) (Sem.-6th) RDBMS-II Subject Code : CS-302 Paper ID : [A0470]

Time : 3 Hrs.

Max. Marks: 60

## **INSTRUCTION TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from SECTION-B.
- 3. Attempt any TWO questions from SECTION-C.

### SECTION-A

 $(10 \times 2 = 20 \text{ Marks})$ 

- 1. Write short notes on :
  - (a) What is data manipulation language ?
  - (b) What are triggers ?
  - (c) What do you mean by Query by example ?
  - (d) What is referential integrity ?
  - (e) What is foreign key constraint? Why are such constraints important ?
  - (f) List few DDL commands.
  - (g) What are the advantages of PL / SQL ?
  - (h) What are cursors?
  - (i) Define the term functional dependency.
  - (j) Give a set of FDs for the relation schema R(A,B,C,D) with primary key AB under which R is in 1NF but not in 2NF.

### **SECTION-B** $(4 \times 5 = 20 \text{ Marks})$

- 2. Describe in detail various set operations available in relational algebra.
- 3. What are the different levels of normalization of database? Discuss.
- 4. Differentiate between relational algebra and relational calculus.

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- 5. Is QBE relationally complete? Explain briefly.
- 6. Write SQL commands for Grant and Revoke. Also explain the role of stored procedures in database management system.

#### SECTION-C

#### $(2 \times 10 = 20 \text{ Marks})$

- 7. With the help of SQL examples, explain in detail indexes, packages, cursor and views.
- 8. Consider the following relational database :

employee (person-name, street, city) works (person-name, company-name, salary) company (company-name, city)

manages (person-name, manager-name)

Give an SQL DDL definition of this database. Identify referential-integrity constraints that should hold, and include them in the DDL definition.

- 9. Consider the employee database given in question VIII. Give an expression in SQL for each of the following queries:
  - (a) Find name of all the employees who work for First Bank Corporation.
  - (b) Find all employees in the database who live in the same cities as the companies for which they work.
  - (c) Find all employees in the database who earn more than every employee of Small Bank Corporation.
  - (d) Find the company that has the smallest payroll.

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