Register Number :

Name of the Candidate :

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B.C.A. DEGREE EXAMINATION, 2007

(SECOND YEAR)

(PART - III)

(PAPER - IX)

630. RELATIONAL DATA BASE MANAGEMENT SYSTEMS

(New Regulations)

(Including Lateral Entry)

May]   [Time : 3 Hours

Maximum : 100 Marks

PART - A   (8 × 5 = 40)

Answer any EIGHT questions.
All questions carry equal marks.

1. List the advantages of a DBMS.

2. Can a weak entity set be converted to a strong entity set ? - Explain.

Turn over

3. Write all the rules for drawing a schema.

4. Explain any five relational operations of relational algebra.

5. Explain the basic structure of QBE with examples.

6. What are the aggregate functions available in SQL ? - Explain.

7. Explain 3rd normal form with suitable examples.

8. Describe the concept of multi - valued dependency.

9. Discuss on PL / SQL data types.

10. Write short note on PL / SQL blocks.

PART - B   (3 × 20 = 60)

Answer any THREE questions.
Each question carries TWENTY marks.

11. (a) Define the primary and secondary keys of a record. When is a concatenated key used as a primary key ? What is multiple key retrieval ?.   (5 + 2 + 3)

(b) Explain the variuos attribute types used in E - R model.   (10)

12. (a) Illustrate in detail on tuple relational calculus.   (10)

(b) Construct an E - R diagram for a car - insurance company.   (10)

13. (a) With suitable example, discuss how to add or remove information using QBE.   (10)

(b) Explain how database can be modified in SQL.   (10)

14. Discuss Boyce - Cod normal form with example.   (20)

15. (a) Explain Data manipulation in PL / SQL.   (10)

(b) List out the features of PL / SQL. (10)