

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (Sem.-1st)**RELATIONAL DATABASE MANAGEMENT SYSTEM**

Subject Code : PDCA-104 (2012 Batch)

Paper ID : [B0144]

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 FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A**I. Write briefly :**

- i. Give example of SQL query for the retrieval using ANY.
- ii. What do you mean by data redundancy?
- iii. What are the security needs of the database?
- iv. What is the difference b/w a primary & secondary key?
- v. Discuss the data types available in PL/SQL.
- vi. What is the difference between a schema and a sub schema?
- vii. Give an example of SQL query with union operator.
- viii. Define Indexing and its types.
- ix. What do you mean by a relation?
- x. When and why are commit and rollback used?

SECTION-B

- 2) What are the three common types of data models? Explain any one of them in detail.
- 3) Discuss the various types of built-in functions available in ORACLE. Also name two functions of each type.
- 4) What is iterative control in PL/SQL? How is it achieved?
- 5) Explain in detail the difference between relational algebra and relational calculus.
- 6) Differentiate between Data Definition Language and Data Manipulation Language.

SECTION-C

- 7) What are views in databases? How can views be used in implementing security of data in database systems?
- 8) Consider the database of a department stored as follows:
 - i. Employee(empno, name, address, deptno.)
 - ii. Deptt(dname, dept no, manager, items sold)
 - iii. Item(Iname, manufacturer, price, model, itemno)
 - iv. Manufacturer(name, address, item supplied, price)Give an ER diagram for this database.
- 9) What is normalization? Explain various types of normalizations with the help of suitable examples.