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Total No. of Pages : 02

Total No. of Questions : 09

**PGDCA (2018 Batch) (Sem.-1)**  
**RELATIONAL DATABASE MANAGEMENT SYSTEM**  
**Subject Code : PDCA-104**  
**M.Code : 50504**

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

**SECTION-A****1) Answer briefly :**

- a) Differentiate between primary and candidate key.
- b) What do you mean by relation in RDBMS?
- c) State the different type of data constraints.
- d) What is the use of Views?
- e) Explain the use of entity relationship model.
- f) Illustrate the use of sub query with example.
- g) What are the commands in data control statements?
- h) Define Third Normal Form.
- i) What are the advantages of Indexes?
- j) State the data types used in PL/SQL.



### SECTION-B

- 2) What is Database management system? State its advantages and disadvantages.
- 3) Discuss the different types of relational operators with examples.
- 4) Write SQL query to show the use of create, insert, update and drop commands.
- 5) Explain various Scalar functions available with example.
- 6) What are the Iterative control statements in PL/SQL? Explain with examples.

### SECTION-C

- 7) What are the possible dependencies which can exist in database? How can we convert a database in First normal form to Second normal form?
- 8) What are the steps involved in developing ER diagram? Identify the different types of entities and relationships in university management system.
- 9) What are joins? Explain the different types of joins with examples.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**