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Total No. of Pages : 02

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M.Sc.(IT)/MCA/PGDCA(2019 Batch) (Sem.-1)  
**RELATIONAL DATABASE MANAGEMENT SYSTEMS**  
Subject Code : PGCA-1904  
M.Code : 76974

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

**SECTION-A**

**Q1. Answer briefly :**

- a) List some popular RDBMS Packages.
- b) Use COUNT aggregate function.
- c) Explain Domain integrity.
- d) Explain the role of DBA in database.
- e) What is the other name of Equi Join and where it is used?
- f) Syntax for Embedded SQL.
- g) Functional Dependency.
- h) Database Schema.
- i) SQL Example of UPDATE command.
- j) Use of GRANT and REVOKE commands.

## SECTION-B

- Q2. Explain the Architecture of DBMS with diagram shows different levels of abstraction in detail.
- Q3. Differentiate between function and procedure using suitable examples.
- Q4. Explain different types of Triggers and write a trigger for salary update.
- Q5. What do you understand by authorization, how it's used on different users? Elaborate.

## SECTION-C

- Q6. Explain an ER model with suitable example.
- Q7. What is Normalization, define and explain first, second and third normal form?
- Q8. What are the different concurrency problems discuss in detail?
- Q9. What are the different Security issues in database?

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.