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Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.-2)
DATA BASE MANAGEMENT SYSTEM
Subject Code : BMCI-204
M.Code : 72466

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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 File processing System v/s Database management System.
- b) Who is DBA? Write short note on it.
- c) What is mapping in three level architecture? Explain.
- d) Define the term schema in database.
- e) What is database integrity?
- f) Explain Self Join in SQL.
- g) What is database consistency?
- h) Explain the structure of distributed database.
- i) Define Multivalued Dependency.
- j) What is Concurrency? How one can achieve it in DBMS?

SECTION-B

2. Write about the following with suitable examples :
 - a. Hierarchical Model
 - b. Network Model
 - c. Relational Model
3. Explain Entity Relationship model in detail.
4. Compare & Contrast Relational Algebra v/s Relational Calculus.
5. Write short notes on :
 - a. Database Recovery
 - b. Database Security
6. Explain disaster management which helps in database protection. Support your answer with suitable example.

SECTION-C

7. Draw & Explain three level architecture of DBMS in detail with different levels of independence.
8. Explain Normalization & its various forms in detail by taking suitable examples.
9. Write short notes on the following :
 - a. Structure of distributed database
 - b. Design of distributed 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.