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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
Paper ID : [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 between physical and logical data independence.
- b) Differentiate between entity and attributes. Give example.
- c) What are the various users of database? What is the role of DBA?
- d) What is Join operator? What are the types of Join?
- e) What is BCNF?
- f) What is the difference between backward recovery and forward recovery?
- g) Explain Referential integrity constraint with an example.
- h) What is Transitive Dependency? Give an example.
- i) What is PROJECT operation?
- j) What is Tuple relational calculus?

SECTION-B

- 2 What are the components of DBMS?
- 3 Discuss the concept of keys in Relational model.
- 4 Define Multi-valued dependency with an example.
- 5 Write SQL statements for Creating, Dropping and Modifying a table.
- 6 What are the problems arising out of concurrent data access?

SECTION-C

- 7 What do you mean by Database? What are the advantages of database approach over the traditional file system?
- 8 What is an Entity Relationship Model? Discuss the constructs and rules of the ER model.
- 9 What are Distributed databases? What are the methods of distributing databases?