Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐ Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards)    (Sem.–3)

# RELATIONAL DATABASE MANAGEMENT SYSTEM

Subject Code : BMCI-301

M.Code : 72582

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) What are the log files?

b) What is Normalization?

c) What are accidental security threats?

d) What is degree of relation?

e) What is the fifth normal form?

f) Describe type of relationship.

g) What do you understand by Functional dependency?

h) What is Key?

i) What is importance of ERD?

j) What is Referential Integrity Constraint?

SECTION-B

2. Describe keys with help of an example :

   a) Primary key

   b) Foreign key

   c) Candidate key

3. Explain three types of normalization in RDBMS.

4. What is ER model? Explain the ER diagram with example.

5. Explain architecture of a DBMS.

6. What do you mean by DSS? Explain different requirements of DSS database.

SECTION-C

7. What do you mean by concurrency? Explain different Locking Methods.

8. What is relational algebra? Explain types of JOIN operations.

9. Explain :

   a) Distributed database management systems (DDBMS)

   b) MPSD

   c) OLAP.

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.