

SECTION-D

7. Explain OLAP architecture in detail.
8. a. What is the difference between operational data and decision support data? Explain
b. Explain decision support system database properties.

SECTION-E

9. Answer briefly :
- a. What is transaction processing monitor?
b. Define primary key.
c. Define trivial dependency.
d. Define 4 normal form.
e. Define data fragmentation.
f. Define serializability.
g. Define ROLAP.
h. Differentiate between simple and composite attribute.
i. Differentiate between physical and logical independence.
j. What is window query?

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.

Roll No.

Total No. of Questions : 09

Total No. of Pages : 02

**MCA (2015 & Onwards) (Sem.-2)
RELATIONAL DATABASE MANAGEMENT SYSTEM**

Subject Code : MCA-202

M.Code : 72877

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTIONS-A, B, C & D** contains **TWO** questions each carrying **TEN** marks each and students has to attempt any **ONE** question from each **SECTION**.
2. **SECTION-E** is **COMPULSORY** consisting of **TEN** questions carrying **TWENTY** marks in all.

SECTION-A

1. Explain the three level architecture of DBMS.
2. a. What is weak entity set? Explain with an example.
b. Differentiate between binary and ternary relationships with example using E-R diagrams.

SECTION-B

3. Differentiate between 3NF and Boyce-Codd normal form with examples.
4. a. Explain system recovery.
b. Explain two-phase locking.

SECTION-C

5. What are problems of using Distributed DBMS? Explain.
6. a. Explain client-server architecture.
b. Differentiate between MPSP and MPMD