

Roll No.

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Total No. of Pages :02

Total No. of Questions : 09

MCA (Sem.-1)

ADVANCED DATABASE MANAGEMENT SYSTEM

Subject Code :PGCA-1953

M.Code : 79038

Date of Examination : 12-01-2026

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

1. **Write briefly :**
 - a. What do you mean by term data independence?
 - b. What is the difference between strong and weak entity?
 - c. Define functional dependencies.
 - d. What is the use of relational calculus?
 - e. What is need of database recovery management system?
 - f. Define Client server concept.
 - g. What do you mean by commit protocols?
 - h. Define term hierarchy.
 - i. Define term big data.
 - j. Define term DTD.

SECTION-B

2. Explain DBMS data models.
3. Explain join dependencies and Referential Integrity Constraints in detail.
4. What do you mean by database administration? Explain with activities.
5. Explain transaction management in detail.

SECTION-C

6. Explain NOSQL databases.
7. What is the need of spatial database? Explain it in detail.
8. What do you mean by temporal databases?
9. Explain the distributed query processing in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.