Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Artificial Intelligence & Machine Learning) (Sem.–3) DATABASE MANAGEMENT SYSTEMS Subject Code : UGCA1922 M.Code : 90351 Date of Examination : 16-12-22

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 SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

- 1. Write briefly :
 - a. Components of DBMS
 - b. Parent child relationship in data models
 - c. DDL vs. DCL
 - d. Stored Procedure
 - e. SQL
 - f. Functional Dependency
 - g. First Normal Form
 - h. Referential Integrity
 - i. Database Security
 - j. Distributed Database.

SECTION-B

- 2. Explain Three Layer Architecture of Database System.
- 3. What are data models and its types?
- 4. Explain relational calculus with examples.
- 5. What is Normalization? Explain its first three types.
- 6. Explain distributed databases and its design.
- 7. What are triggers and its types? Write the SQL code for Trigger using suitable example.

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.