

**A-0814**

Total Pages : 3

Roll No. ....

**DIT-05**

**DATABASE MANAGEMENT SYSTEM**

**(DIT)**

Examination, June 2025

Time : 2:00 Hrs.

Max. Marks : 100

**Note :-** This paper is of Hundred (100) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×26=52

**Note :-** Section 'A' contains Five (05) Long-answer type questions of Twenty Six (26) marks each. Learners are required to answer any *two* (02) questions only.

1. Define Database Management System ? Explain the Database Languages with an example.
2. What is normalization ? Explain briefly the various types of Normal forms with example.
3. What is Schema ? Explain the different types of Data Models.
4. What is data independence ? Explain briefly about the types of data independence.
5. What is SQL ? What are the characteristics of SQL ? What are the different SQL Datatypes ? Explain with an example.

### **Section–B**

#### **Short Answer Type Questions      4×12=48**

**Note** :– Section ‘B’ contains Eight (08) Short-answer type questions of Twelve (12) marks each. Learners are required to answer any *four* (04) questions only.

1. Explain the role of DBA ?
2. Explain the following terms
  - (a) Data and Information
  - (b) Fields and records

3. Distinguish between primary key, candidate key and super key.
4. Describe data redundancy.
5. Write short notes on
  - (a) Generalization
  - (b) Aggregation
6. Differentiate Prime attribute and Non-prime attribute with example.
7. Explain the difference between Traditional file approach and Database approach.
8. What is Domain Constraint ? Explain any six Codd's rules for RDBMS.

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