

A-1289

Total Pages : 3

Roll No.

DIT-05

Diploma in Information Technology (DIT)

Database Management System

Examination February, 2026

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.

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(1)

P.T.O.

1. Explain the concept of file structure. Discuss different types of file structures with suitable example.
2. Classify the ER Model. Discuss entities, attributes, relationships and participation constraints with a neat ER diagram.
3. What is Normalization ? Explain 1NF, 2NF, 3NF, BCNF, 4NF and 5NF with suitable examples.
4. Discuss the principles of good database design.
5. Demonstrate the structure of an SQL.

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. Classify the primary file organization.
2. Explain what are the weak and strong entities ?
3. What are the main responsibilities of a DBA ?

4. What are the types of data model in DBMS ?
5. Extend the referential integrity.
6. Compare between primary key, Candidate Key and Super Key.
7. Illustrate the SQL data types and also explain the types of SQL commands.
8. Explain the types of database recovery.
