MATS CENTRE FOR DISTANCE AND ONLINE EDUCATION (MCDOE)

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NAAC GRADE A+ ACCREDITED UNIVERSITY

Assignment Work
Session: July 2025-26

Max Marks – 30   **Min Marks-12**

Name of Programme: PGDCA_I
Programme Code:
Name of Course: DBMS
Course Code:
Name of Learner:
Enrollment Number:
Mobile Number:
Email ID:
Address:
Centre: MCDOE

Instruction to Submit Assignment

- All assignments should be completed and submitted at MCODE study centre before the due date.
- All the Assignment should be written by the learners, in some aspects print out of the assignment will also be accepted.
- The date of submission will be provided by the programme coordinator.
- The assignments constitute the continuous component of the evaluation process and have 30% weightage in the final grading. The students need to score minimum marks as per Examination Scheme of particular programme in the assignments of each course in order to clear the continuous evaluation component.
- Without submission of the assignment learners are not allowed to appear in the term end examination.
- Assignments should be brief, precise and in your own words. Please do not copy the answers from the study material.
- You may retain a copy of your assignment response to avoid any unforeseen situation.

Attempt all questions. All questions carry equal marks. (5*3)

1. What is a Database? Explain any three characteristics of a database.

2. Define DBMS. Write any three advantages of using DBMS.

3. What is a Data Model? Name any three types of data models.

4. Differentiate between Primary Key and Foreign Key (any three points).

5. What is Normalization? State any two benefits of normalization.

Attempt all questions. All questions carry equal marks. (3*5)

1. Explain the Three-Level Architecture of DBMS (External, Conceptual, Internal) with a neat diagram.

2. What is the Relational Model? Explain its components—Relations, Attributes, Tuples, and Constraints.

3. Describe the Entity-Relationship (ER) Model. Draw and explain an ER diagram for a Student Management System (Entities, Attributes, and Relationship)..