Paper ID : 250359

Roll No: | | | | | | | | | | | | | |

MBA
(SEM IV) THEORY EXAMINATION 2024-25
DATA BASE MANAGEMENT SYSTEM

TIME: 3 HRS **M.MARKS: 100**

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

Q no.	Question
a.	Define DATA Base Management system
b.	What is Primary Key and Candidate Key?
c.	Write Characteristics of SQL
d.	What is Normalization
e.	Give different DBMS Languages.
f.	Write syntax and example of CREATE TABLE Command
g.	List various aggregate Functions SQL
h.	What is dead Lock?
i.	Define Data independence. Mention their types
j.	What is meant by Data Visualization.

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

Q no.	Question
a.	Explain the concept of a Database Management System (DBMS) and its key functionalities.
b.	Explain the concept of database normalization and its benefits.
c.	Explain the concept of SQL and its different Data Definition Language (DDL) and Data Manipulation Language (DML) commands.
d.	Explain the concept of transactions in DBMS and the different transaction states.
e.	Discuss the concept of concurrency control in DBMS and its importance.

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

Q no.	Question
a.	Explain different types of keys in a relational database (Primary Key, Foreign Key, Candidate Key, Super Key) with examples.
b.	Discuss the concept of relational algebra and its different operations (SELECT, PROJECT, JOIN, UNION, INTERSECT, DIFFERENCE

4. Attempt any *one* part of the following: **10 x 1 = 10**

Q no.	Question
a.	Describe the concept of Data Mining and Data Warehousing. Explain its importance in modern business intelligence.
b.	Discuss the ACID properties of database transactions and their importance.

QP25EP1_143 | 27-May-2025 9:16:13 AM | 122.185.51.242

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5. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question
a.	Explain Data Mining and warehousing.
b.	Explain Multimedia and web Database.

6. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question
a.	Explain Spatial and Geographical Databases
b.	Explain Web and Mobile Data Bases.

7. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question
a.	Explain about concurrency controls techniques.
b.	Explain about Transaction and recovery form transaction

QP25EP1_143 | 27-May-2025 9:16:13 AM | 122.185.51.242

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