

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) –201306

**POST GRADUATE DIPLOMA IN MANAGEMENT (2023-25)  
END TERM EXAMINATION (TERM-IV)**

Subject Name: **Database Concepts and Application (Theory)**

Time: **01.00 hrs**

Sub. Code: **PGIT41**

Max Marks: **20**

**Note:**

**All questions are compulsory.**

**Section A contains 3 questions. Attempt any two of them, each carry 5 marks.**

**Section B contains 3 questions. Attempt any two of them, each carry 5 marks.**

<b><u>SECTION - A</u></b>		
Attempt all questions. All questions are compulsory.		<b>5X2 = 10 Marks</b>
Questions	CO	Bloom's Level
<b>Q1. Attempt any two parts</b>  1a. Explain the Atomicity and Consistency properties of transaction 1b. Explain log-based recovery 1c. What is normalization? Explain 2 <sup>nd</sup> normal form with example.	CO1	L5
<b><u>SECTION – B</u></b>		
All questions are compulsory		<b>5 x 2 = 10 Marks</b>
Questions	CO	Bloom's Level
<b>Q2. Attempt any two parts</b> 2a. Explain client server architecture with diagram. 2b. Explain two phase locking protocol 2c. Explain Cross Join (Cartesian Join) in DBMS? How does it differ from other types of joins? Provide an example where a Cross Join might be useful.	CO2	L5

**Kindly fill the total marks allocated to each CO's in the table below:**

COs	Marks Allocated
CO1	10 Marks
CO2	10 Marks

**(Please ensure the conformity of the CO wise marks allocation as per your TLEP.)**

**Blooms Taxonomy Levels given below for your ready reference:**

**L1= Remembering**

**L2= Understanding**

**L3= Apply**

**L4= Analyze**

**L5= Evaluate**

**L6= Create**