

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2024)

CLASS: B.Tech.
BRANCH: ECE/EEE/BT/CE/CHEMICAL/FT/ME

SEMESTER : V (O.E)
SESSION : MO/2025

SUBJECT: CS361 DATABASE MANAGEMENT SYSTEM
TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1	Define D.B.M.S? its components. Explain the role of DBA.	[5] 1	I
Q.2(a)	Define RDBMS? Explain Codd's Rule with example.	[2] 2	III
Q.2(b)	With the help of diagram explain Database Architecture and its function.	[3] 2	VI
Q.3	What is a Transaction in DBMS? What are the properties of a transaction. How DBMS handle concurrency control. Explain	[5] 2	IV
Q.4	What are the main components of a DBMS E-R diagram. Draw an E-R diagram for Hotel Management Information System.	[5] 2	II
Q.5	Define Normalization, how you will achieve that. With the help of example explain 1 st , 2 nd & 3 rd normal forms.	[5] 2	III

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