

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER : III/ADD
SESSION : MO/2025**

SUBJECT: CA203 DATASASE 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(a)	Difference between file system and Database system.	[2] 1	2
Q.1(b)	What is Data Model ? Describe different type of data model.	[3] 2	2
Q.2(a)	Describe Data Independence and its types.	[2] 2	2
Q.2(b)	Describe Three Schema Architecture with Proper Diagram.	[3] 2	3
Q.3(a)	Define the role of constraints in database.	[2] 1	2
Q.3(b)	Explain different type of key with proper example.	[3] 2	2
Q.4(a)	Explain ER Diagram with Proper Diagram.	[2] 2	2
Q.4(b)	Explain Fundamental operators of Relational Algebra.	[3] 2	3
Q.5(a)	Describes Pitfalls in Relational-Database Design.	[2] 2	2
Q.5(b)	Explain Functional Dependencies with Example.	[3] 2	3

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