MBA DEGREE EXAMINATIONS: NOV/DEC 2023

(Regulation 2021)

Third Semester

MASTER OF BUSINESS ADMINISTRATION

P21MBE0184: Database Management Systems

COURSE OUTCOMES

CO1: Explain the understanding of the fundamental principles of Database Management systems

CO2: Display the competence to manage data using Database Management Systems.

CO3: Build an appropriate Database Design based on the business problem

Time: Two Hours   **Maximum Marks: 50**

PART A (1 x 18 = 18 Marks)

1. The railway reservation system facilitates the passengers to enquire about the trains available based on source and destination, booking and cancellation of tickets, enquire about the status of the booked ticket, etc. The record of trains includes its number, name, source, destination, and days on which it is available, whereas record of train status includes dates for which tickets can be booked, total number of seats available, and number of seats already booked.

   Create a database design for the reservation system of the railways. Your answer must contain Description of Tables, Procedures and ER diagram for the Database design.   CO3 [K_6]

PART B (2 x 4= 8 Marks)

2. What is a relational database management system (RDBMS). Draw the RDBMS architecture.   CO1 [K_1]

3. Distinguish between the different degrees of data abstraction in Database Management Systems   CO1 [K_4]

PART C (3 x 8 = 24 Marks)

4. Simplify Codd's rules for a database design using an example of your choice.   CO2 [K_4]

5	a	Explain the different types of Constraints in Database Management Systems	CO2	[K5]
	b	Distinguish between tables and views in a relational database	C02	[K4]
6		Explain Concurrency control in DBMS with examples	CO2	[K5]

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