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April-May-2026

Total No. of Questions : 5]

SEAT No. :

PF5889

[Total No. of Pages : 2

[6651]-53
M.C.A.-I (Management)
ADB 503 MJ : ADVANCED DBMS
(2025 Pattern) (Semester - I)

Time : 2½ Hours] *[Max. Marks : 45*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) Ashwarya hotel is in process of computerization of room, hall and venue booking and invoicing payment tracking system. This helps to minimize the ability to rent out empty rooms, hall & venue and prevents duplicate reservation. They have to indicate the period for which they need number of rooms, halls and venue. The reservation can be cancelled or the dates or number of rooms, hall can be changed. For reservation, cancellation or modification of rooms, hall & venue customer receives on acknowledgement from hotel.

a) Draw E-R diagram with mention its relationship. **[7]**

OR

Normalise this case study up to 3 NF.

b) Write short note [any one] **[2]**

i) Tuples.

ii) Primary key

Q2) a) What in mean by transaction with states of transaction. **[5]**

b) Explain views of data in DBMS. **[4]**

OR

c) What is mean by concurrency control explain concurrency execution example. **[5]**

d) Differentiate defferred & Immediate database modification with example. **[4]**

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Q3) a) Explain role based access control. **[5]**

b) Explain challenges in database security. **[4]**

OR

c) Explain Time stamp-based ordering protocols. **[5]**

d) Explain I/o parallelism partition Techniques in detail. **[4]**

Q4) a) What is mean by parallel databases? Explain with example. **[5]**

b) What is mean by distributed database explain types. **[4]**

OR

c) Explain concurrency control in Distributed systems. **[5]**

d) List of parallel database Architectures. Explain with diagram. **[4]**

Q5) a) Explain four types of no-SqL **[5]**

b) Explain DML statement with example. **[4]**

OR

c) Explain JSON with JSON structure. **[5]**

d) Explain Joins in SQL. **[4]**



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