

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

M.A./M.Sc. THIRD SEMESTER EXAMINATION, DECEMBER 2024

SECOND YEAR [BATCH 2023-25]

COMPUTER SCIENCE

Date : 05/12/2024

Time : 11.00 am – 1.00 pm

Paper : CC 13 [Advance DBMS]

Full Marks : 50

Answer **any five** questions:

[5×10]

1. a) What is two-phase locking protocol?
b) Differentiate between 3NF and BCNF with example. [5+5]
2. a) What is certify lock? What are the advantages and drawbacks are of certify lock?
b) Discuss inner join and outer join with example. [5+5]
3. a) Define cascading rollback. State rules for view serializability.
b) Explain B+ tree with example. [5+5]
4. a) Illustrate result equivalent schedule.
b) Discuss rollback recovery technique. [5+5]
5. a) Define history. Explain ACID property of transaction.
b) Briefly explain why concurrency is needed? [5+5]
6. a) Define a package that consists of 2 classes multiplication and division and then calls it appropriately.
b) Define different parts of trigger. [5+5]
7. a) Differentiate between stored procedure and trigger with example.
b) Differentiate between DDL and DML with example. [5+5]

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