MAY 2024 **P/ID 78002/RMBS1**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions in 50 words each.

Write short note on:

1. Database administrator.
2. E-R diagram.
3. Relational model.
4. SQL.
5. Decomposition.
6. Integrity constraint.
7. Object oriented data model.
8. Commit protocols.
9. Distributed systems
10. Network transparency.
11. Join dependencies.
12. Query processing.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions in 250 words each.

13. Discuss the overall system structure of DBMS.

14. Explain about mapping constraints.

15. Discuss the structure of relational model.

16. Explain normalization using join dependencies.

17. Discuss querying with complex types.

18. Explain inter-operation parallelism.

19. What are the four conditions of deadlock handling?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions in 500 words each.

20. What are the rules of converting ER diagrams to table? Explain any three with examples.

21. Discuss about nested subqueries and views in DBMS.

22. Explain the key normal form and alternative approaches.

23. Describe the process in creation of complex values and object.

24. Explain the database system architecture.
