DECEMBER 2022 **P/ID 78002/RMBS1**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions in 50 words each.

1. Describe various symbols used in E.R. diagram.
2. List out the characteristics of database system
3. What is the significance of foreign key?
4. What is relational algebra?
5. What is a trigger?
6. Define the functional dependency.
7. What are multi valued dependencies?
8. Define BCNF.
9. Define DDL and DML.
10. What do you mean by database schema?
11. Define normalization.
12. What do you mean by the term deadlock?

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions in 250 words each.

13. Explain the functions of a DBMS in brief.

14. Briefly discuss about different types of schedules.

15. What are the various advantages and disadvantages of database approach?

16. Define functional dependency with example.

17. Explain the components of relational model.

18. What is the objective of normalization? Discuss 1NF and 2 NF.

19. Explain the database security issues?

PART C — (3 × 10 = 30 marks)

Answer any THREE questions in 500 words each.

20. Define relational algebra. Explain the various traditional set operations and relational operations of it.

21. What is sub query nested sub query? And also explain the following SQL operators IN, AII, Any.

22. How to preserve Functional Dependencies during decomposition?

23. Discuss the following:

    (a) Client/Server Database

    (b) Object Oriented Database

24. How to convert a class diagram into normalized tables?
