

MAY 2023

**P/ID 17615/
PCA4M/PCATC**

Time : Three hours

Maximum : 80 marks

PART A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

1. What is called Data Definition Language?
2. What is meant by relational algebra?
3. Expand and write a note on the term SQL.
4. List the features of E-R model.
5. What do you mean by functional dependency?
6. Write a note on persistent programming language.
7. What is B-Tree?
8. What is called external sorting?
9. What is meant by the term "Transaction"?
10. What is force policy in data buffering?
11. Give the general structure of a client/server architecture.
12. What is distributed database?

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Narrate on set operations. Give examples.
14. Write short notes on embedded SQL.
15. Outline the basic structure of E-R diagrams.
16. Describe about Decomposition using functional dependencies.
17. Explain about static hashing.
18. Give short notes on recoverability.
19. Explain the types of network.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Illustrate the basic concepts of SQL.
21. Discuss about decomposition. using functional dependencies in relational database design.
22. Explain the fundamental aspects of B-Tree.
23. Give a detailed notes on dead lock handling.
24. Explain in detail about distributed database.