

**MAY 2022**

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

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Time : Three hours

Maximum : 80 marks

**PART A — (10 × 2 = 20 marks)**

Answer any TEN questions.

1. What is meant by database?
2. Expand and write a note on the term SQL.
3. What is tuple relational calculus?
4. What is called E-R Model?
5. What are multi valued dependencies?
6. Define the term persistance.
7. What is meant by RAID?
8. What is meant by external sorting?
9. List out the states in transaction management.
10. What is concurrency control?
11. Give the general structure of a client/server architecture.
12. Expand LDAP.

**PART B — ( $5 \times 6 = 30$  marks)**

Answer any FIVE questions.

13. Describe the relational model.
14. Discuss in detail about set operations.
15. Write short notes on basic structure of E-R diagrams.
16. Narrate the structure types and inheritance in SQL.
17. Explain join operation in query processing.
18. Give short notes on deadlock handling.
19. Explain client/server architecture.

**PART C — ( $3 \times 10 = 30$  marks)**

Answer any THREE questions.

20. Illustrate on the basic aspects of SQL.
  21. Elaborate on the concept of normalization.
  22. Explain about B-Tree. Give examples.
  23. Give a detailed notes on conflict serializability.
  24. Explain the directory system.
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