

MAY 2016

P/ID 17515/PCASR

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Write about update through views and null values.
2. Explain Domain-key normal form with examples.
3. Give short notes on Hash functions.
4. What are the measures of Query cost? Explain.
5. Write about various states of a transaction.
6. Discuss on various locks with examples.
7. Give the tradeoffs for building distributed database systems.
8. Write about the advantages and disadvantages of data replication.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain Domain relational calculus operations with examples.
10. Write about set operations in SQL with example.
11. Give the various normalizations using functional dependency.
12. Explain object-oriented data model with diagram.
13. Discuss on various file organizations.
14. Write about B⁺ - tree file organization.
15. Explain concurrent executions.
16. Discuss on serializability in the execution of transaction.
17. Explain parallel systems.
18. Write about distributed query processing.