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## DECEMBER 2015

## **P/ID 17515/PCASR**

Time: Three hours Maximum: 100 marks

PART A —  $(6 \times 5 = 30 \text{ marks})$ 

Answer any SIX questions.

- 1. Give the three levels of data abstraction and explain.
- 2. Discuss on Null values and state the uses.
- 3. What are weak entity sets? Explain with examples.
- 4. Write short note on persistent programming languages.
- 5. Discuss on fixed-length records with diagrams.
- 6. Give the steps in query processing and explain.
- 7. Write about recoverability with examples.
- 8. Describe parallel database architectures with diagrams.

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PART B —  $(7 \times 10 = 70 \text{ marks})$ 

Answer any SEVEN questions.

- 9. Discuss on Tuple Relational calculus operators and give examples.
- 10. Illustrate views in relational model.
- 11. Explain reduction of an ER-Schema to tables.
- 12. Illustrate normalization using Join dependency.
- 13. Discuss on RAID system with diagrams.
- 14. Explain dynamic hashing with examples.
- 15. Give the implementation of atomicity and durability and explain with diagrams.
- 16. Explain timestamp-based protocols.
- 17. Explain distributed systems with neat illustrations.
- 18. Discuss on various network types with diagrams.

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