

**Question Paper Code : 91325**

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B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Sixth Semester

Computer Science and Engineering

CS 2029/ CS 606/ 10144CSE 23 — ADVANCED DATABASE TECHNOLOGY

(Common to Seventh Semester Information Technology)

(Regulation 2008/2010)

(Common to PTCS 2029/10144 CSE 23 – Advanced Database Technology for B.E.  
(Part-Time) Fifth/Sixth Semester – CSE – Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define query processing.
2. Mention the use of database tuning.
3. State any two features of distributed database.
4. Define concurrency control.
5. What is the use of JASMINE model?
6. Write any two features of POSTGRES model.
7. Define data mining.
8. Mention main difference between mobile and web database.
9. What is multimedia database?
10. Give any features of spatial database.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain about third normal form and BCNF with an example. (8)  
(ii) Discuss query optimization briefly. (8)
- Or
- (b) (i) Write short note on transaction processing. (8)  
(ii) Discuss two phase locking protocol technique for concurrency in detail. (8)
12. (a) Discuss about interquery and intraquery parallelism with example. (16)
- Or
- (b) (i) Explain the architecture of distributed database with a neat diagram. (10)  
(ii) Write about commit protocols briefly. (6)
13. (a) Discuss the modeling and design of object oriented database in detail. (16)
- Or
- (b) Explain the overview of GEMSTONE and ODMG models. (16)
14. (a) (i) Distinguish between OLTP and OLAP. (8)  
(ii) What are the different schema in data warehouse. Explain it. (8)
- Or
- (b) Write about mobile, XML and web databases with their structure. (16)
15. (a) Explain about knowledge bases, active and deductive databases. (16)
- Or
- (b) Discuss the concepts of multimedia data structures and query languages briefly. (16)