

Total No. of Questions : 8]

SEAT No. :

P4134

[4860]-340

[Total No. of Pages : 2

M.E. (Computer Engineering / Computer Networking)

HIGH PERFORMANCE DATABASE SYSTEMS

(2008 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *Solve any three questions from each section.*
- 2) *Answer to each section should be written on different answer sheets.*
- 3) *Assume suitable data, if necessary.*
- 4) *Draw neat diagram wherever required.*

SECTION - I

- Q1)** a) Explain in detail three levels of Database Tuning which can be used by DBA to tune different parameters. [6]
b) Explain TP-monitor Architecture. [6]
c) List and explain atleast four features of TPC benchmarks that help make them realistic and dependable measures. [4]
- Q2)** a) Explain hash join algorithm with example. [6]
b) Discuss heuristics in Optimization. [6]
c) Explain immediate and deffered view maintenance. [4]
- Q3)** a) Explain 2 phase locking protocol with example. [6]
b) Explain the difference between hash index and B+ Tree index with example. [6]
c) Discuss Nested and Compensating transactions. [4]
- Q4)** a) Explain data warehouse Architecture. [6]
b) Discuss Business Intelligence. [6]
c) Explain OLAP operation with example. [6]

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SECTION - II

- Q5)** a) Discuss Aggregations in SQL. [6]
b) How XML integration is achieved with SQL servers. [6]
c) Discuss about SQL 3 standards, Objected oriented and security features. [4]
- Q6)** a) Discuss how to find candidate and frequent itemsets using APRIORI algorithm with example. [6]
b) What is supervised and unsupervised learning. [6]
c) Discuss issues in Data mining. [4]
- Q7)** a) Explain Active and Deductive databases. [6]
b) Discuss main memory database. Explain relative merits of loading entire database back into main memory before resuming transaction processing. [6]
c) Brief about Object Relational database. [4]
- Q8)** Write a short note on (any 3) : [18]
a) LDAP
b) Webservice
c) Datawarehouse schema
d) Dashboards

