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B.E. / B.Tech. (Part Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2012
COMPUTER SCIENCE & ENGINEERING BRANCH
SEVENTH SEMESTER
CS 9038 – DATABASE TUNING
(REGULATIONS 2008)

54

Time : 3 Hrs.

Max. Marks : 100

Answer ALL Questions

PART – A (10 X 2 = 20 Marks)

1. What is a database tuning? List any two database tuners.
2. Quote any two cases of transactions that do not need locking.
3. With example brief on grouping queries.
4. List the ways of tuning the storage subsystem.
5. Why is it recommended to avoid indexes on small tables?
6. How do triggers affect the system performance?
7. With an example write the importance of event monitors.
8. What are Suspicious Queries?
9. Give the minimum requirements of any two configuration parameters.
10. Mention any four tuners of SQL Server.

PART – B (5 X 16 = 80 Marks)

11. Explain in detail about Lock tuning. [16]

 - 12.a.i) Explain the advantages and disadvantages of clustered indexes with suitable examples. [10]
 - a.ii) Discuss in detail the distribution of indexes of a hot table. [6]
 - Or
 - 12.b.i) Explain how hashing influences database tuning. [8]
 - b.ii) Illustrate the priority inversion in transaction execution. [8]

 13. a.i) On the given set of FDs of a relation having the attributes (A B C G H I), check whether they are the minimal FDs and then form the corresponding normalized schemas. [6]
- A -> B ; B -> C; CG -> H; CG -> I and B -> H

a ii) Explain with appropriate examples, the tuning of nested queries. [10]

Or

13. b i) Explain the uses and performance of triggers with suitable examples. [6]

b ii) Explain the tuning of Application Interface. [10]

14.a. Discuss on the tools used to gather information regarding the performance of a database system. [16]

Or

14.b. Explain with a neat diagram, the consumption chain approach for DBMS troubleshooting. [16]

15.a. Explain with proper illustrations and the fine chopping algorithm, the concept of correct transaction chopping. [16]

Or

15.b. Illustrate the usage of Data Access operators and Query Structure operators in the construction of Query Access plan. [16]
