

03/06/2019

Roll No.

Total Pages : 03

BT-6/M-19

36007

ADVANCED DATABASE SYSTEMS

CSE-324

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

Unit I

1. What form of parallelism (inter-query, inter-operation and intra-operation) is likely to be the most important for each of the following tasks : (a) Increasing the throughput of a system with many small queries (2) Increasing the throughput of a system with a few large queries, when the number of disks and CPU is large. 10+10=20

- (a) What is query processing in distributed database ?
How data is stored and processed in DDBMS ?
- (b) Draw a neat sketch of distributed DBMS architecture. Elaborate the problems associated with distributed concurrency control. 10+10=20

Unit II

3. What is Clustering ? Differentiate between data matrix and dissimilarity matrix. Explain hierarchical method of clustering detail. 20
4. (a) What is meant by support, confidence, join, prune and item-set in association rule mining ?
(b) Write a detailed note on similarity search over sequences. 10+10=20

Unit III

5. How RDBMS differ from ORDBMS and OODBMS ? Explain the designing steps for implementing of ORDBMS. 20
6. What are object oriented database systems ? How persistence is handled in typical OODBMS ? Explain structured types and reference types. 20

Unit IV

7. How a query is processed in multimedia databases ? Discuss multimedia sources identified in multimedia database. 20

8. (a) What do you mean by temporal databases ? Write a precise note on valid time and transaction time by a suitable example.
- (b) Write and explore the strategies to ensure integrated access to multiple data sources ? $10+10=20$

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