

Roll No.

Total Pages : 2

BT-6/M-13

8607

ADVANCED DATABASE SYSTEMS

Paper : CSE-324

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt five questions in all, selecting at least one question from each unit.

UNIT-I

- 1. (a) Explain types of Interoperation parallelism.
(b) Define the term Distributed data independence. What does this mean with respect to querying and updating data in presence of data fragmentation and replication ?
10,10
- 2. (a) What are Timestamp based concurrency control schemes ? Describe the mechanisms of it in respect of distributed DBMS. What is Multiple granularity locking protocol ?
(b) How can recovery happen in case of distributed database ? How to handle in-doubt transactions ?
10,10

UNIT-II

- 3. (a) Write down the general form of classification and regression rules. Also define support and confidence for them.
(b) What are Association rules ? How to find them ? What are the uses of association rules ?
10,10

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- 4. (a) Explain the method of best-splits. Define the terms Gini measure and Information gain.
(b) How do we find best splits for an attribute ? 10,10

UNIT-III

- 5. (a) What are Object databases ? How is inheritance implemented in object databases ?
(b) What are Collection types ? What is a collection hierarchy ? Explain. 10,10
- 6. (a) What are Set-valued attributes ? Explain strategies on optimizing queries with set-valued attributes.
(b) Give some example of object-identity and reference types of SQL. http://www.kuonline.in 10,10

UNIT-IV

- 7. Explain the concept of transactional workflow. What is failure-atomicity requirement of a workflow ? 20
- 8. Write short notes on the following :
(a) Integrated access to multiple data source.
(b) Representation of geographic data and its queries.
10,10

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