

Advance database management system

Group A

Attempt any six.[6 X 5 = 30]

1. What is the difference between persistent and transient objects? How is persistence handled in OOp database system?.
2. Explain the process of mapping EER schema to ODB schema.
3. Explain high level query processing steps. Explain sort-merge strategy for external sorting.
4. Define materialization. Explain demand driven and producer driven evaluation in detail.
5. Explain parallel database architecture approached used for query processing.
6. Define query tree with example. What are the transformation rules used in query optimization?
7. Explain types of transparency in distributed database.

Group B

Attempt any three.[3 x 10=30]

8. What is federated database management system? Explain distributed database schema architecture and federated database schema architecture in detail.
9. State CAP theorem. Explain the categories of NoSQL systems. Describe the characteristics of MongoDB distributed system
10. Define Big data. What are its characteristics? Describe HDFS and Explain map reduce programming model.
11. Describe ECA model with suitable example. What are the types of updates that can be performed in temporal database? Explain the models of spatial information.