

Note:Q1 is compulsory. Attempt one question from each unit.

UNIT-I

- Q1 (a) There are some properties which must be followed while selecting predicates
(i) Complete (ii) Minimal (iii) Relevant. Define each of them. (5)
(b) What are the objectives of the design of data distribution? (5)
(c) Explain different communication structures for commit protocols. (5)
(d) Explain briefly Client Server Model and advantages of Client Server Computing . (5)

UNIT-II

- Q2 (a)What are the different methods of allocation of fragments? How replication introduces further complexity in design?
(b)What are the different rules of transforming global queries into a fragment query? (5)
Q3 (a) State different problems of heterogeneous distributed databases. (5)
(b) Explain the reference model of distributed transaction recovery. (5)

UNIT-III

- Q4 (a)What is distributed database Management System? Why we need Distributed Databases? (5)
(b)How Distributed Databases are different from traditional databases? (5)
Q5 (a) What are the different methods of distributed deadlocks prevention? (5)
(b) Explain the framework for distributed database design. (5)

UNIT-IV

- Q6 (a) Write short notes on (i) Network partition and (ii) False deadlock. (5)
(b) What are the goals of transaction management? (5)
Q7 (a) State different problems of heterogeneous distributed database. (5)
(b)Explain Non-Blocking Commitment protocol.

UNIT-V

- Q8 (a) Explain loosely coupled and tightly coupled federated databases. Also give their advantages and disadvantages. (10)
Q9 (a) What is fragmentation? Explain different types of fragmentation by giving

an example.

(10)