

UNIT III

S.No	Questions	BT	CO	PO
Part – A (Short Answer Questions)				
1	What is a transaction in DBMS?	L1	CO3	PO1
2	List the properties of a transaction.	L1	CO3	PO1
3	What are the types of transactions?	L1	CO3	PO1
4	Define serializability in concurrency control.	L1	CO3	PO1
5	List any two concurrency control algorithms.	L2	CO3	PO1
6	What is a timestamp-based concurrency control?	L1	CO3	PO1
7	What is optimistic concurrency control?	L1	CO3	PO1
8	Define deadlock in distributed transactions.	L1	CO3	PO1
9	What is deadlock management?	L1	CO3	PO1
10	Compare centralized and distributed transaction control	L1	CO3	PO1
Part – B (Long Answer Questions)				
11	a) Explain the types and properties of transactions.	L2	CO3	PO1, PO2
	b) Discuss the concept of distributed concurrency control.	L2	CO3	PO1, PO2
12	a) Describe the mechanism of timestamp-based concurrency control	L2	CO3	PO1, PO2
	b) Explain optimistic concurrency control algorithms.	L3	CO3	PO1, PO2
13	a) Describe deadlock and how it is managed in distributed systems.	L2	CO3	PO1, PO2
	b) Explain serializability with a suitable example.	L3	CO3	PO1, PO2
14	a) Discuss different concurrency control mechanisms.	L2	CO3	PO1, PO2
	b) Explain locking techniques and timestamp ordering.	L3	CO3	PO1, PO2
15	a) What are the challenges of distributed transaction management?	L2	CO3	PO1, PO2

	b) Compare the different concurrency control strategies	L2	CO3	PO1, PO2
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