

**ANURAG Engineering College**

(An Autonomous Institution)

III B.Tech I Semester Regular Examinations, December – 2024

**DISTRIBUTED DATABASES**

(COMMON TO CSE &amp; IT)

**Time: 3 Hours****Max. Marks: 60****Section – A (Short Answer type questions)****(10 Marks)****Answer All Questions**

	<b>Course Outcome</b>	<b>B.T Level</b>	<b>Marks</b>
1. What is Distributed Database System?	CO1	L1	1M
2. What is Fragmentation?	CO1	L1	1M
3. Write Short notes on Query Decomposition?	CO2	L2	1M
4. What is Query Optimization?	CO2	L1	1M
5. What is Two Phase locking?	CO3	L1	1M
6. What is Deadlock Prevention?	CO3	L1	1M
7. Write short notes on Site (System) Failure?	CO4	L2	1M
8. What is Intra-Operator Load Balancing?	CO4	L1	1M
9. What is Object?	CO5	L1	1M
10. Define Inheritance?	CO5	L1	1M

**Section B (Essay Questions)****Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Explain Peer-to-Peer Distributed Systems?	CO1	L2	10M
<b>OR</b>			
B) Explain the top-down approach design strategy of distributed database design.?	CO1	L2	10M
12. A) Explain Layers of Query Processing with neat diagram?	CO2	L2	10M
<b>OR</b>			
B) Explain Query Optimization and its Three Components?	CO2	L2	10M
13. A) Explain deadlock Prevention and Avoidance and Detection?	CO3	L2	10M
<b>OR</b>			
B) Explain ACID Properties of Transaction?	CO3	L2	10M
14. A) Explain Basic Fault Tolerance Approaches and Techniques?	CO4	L2	10M
<b>OR</b>			
B) Explain Parallel System Architecture with neat diagram?	CO4	L2	10M
15. A) Explain Horizontal Class Partitioning with Example?	CO5	L2	10M
<b>OR</b>			
B) i) Compare OODBMS and ORDBMS.? ii) Discuss in detail about persistent programming languages.?	CO5	L3	10M

