GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)
Ph.D. (Second Semester-Summer) Examinations, May – 2025
23SPPECS2013 - Distributed Database Systems
(CSE)

Time: 3 hrs   Maximum: 70 Marks

The figures in the right hand margin indicate marks.

	Answer *ANY FIVE* Questions.	**(14 x 5 = 70 Marks)**	**Marks**
1.a.	Discuss briefly about query decomposition & data localization.		8
b.	Explain views in centralized DBMSs with examples.		6
2.	Describe general architecture of a parallel database system & shared memory architecture.		14
3.a.	Explain about DBMS Standardization? Give Examples.		7
b.	Describe briefly about transaction management.		7
4.	Discuss about the various transaction management through examples.		14
5.a.	Explain about Complexity of relational algebra operations.		7
b.	Draw a diagram and explain a fully memory hierarchy managed by LRM and BM.		7
6.a.	Explain briefly about network partitioning.		7
b.	Explain briefly about timestamp-based concurrency algorithms		7
7.	Describe about architectural issues in distributed object DBMS.		14
8.a.	Discuss about parallel execution for hierarchical architecture.		7
b.	Explain briefly about object storage.		7

---End of Paper---