BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MCA **SEMESTER : III**
BRANCH: MCA **SESSION : MO/19**

SUBJECT: CA530 DISTRIBUTED DATABASES

TIME: 3.00Hrs. **FULL MARKS: 50**

INSTRUCTIONS:
1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
***4*. Before attempting the question paper, be sure that you have got the correct question paper.**
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a)	Discuss the various promises of DDBMSs.	[5]
Q.1(b)	List the various design issues of DDBMS. Explain Distributed Concurrency Control issue, Distributed Deadlock Management and Reliability of Distributed DBMS issue.	[5]
Q.2(a)	Give a brief account of architectural models for distributed DBMS.	[5]
Q.2(b)	Explain clustering algorithm using matrices.	[5]
Q.3(a)	Explain with diagram the Generic Layering Scheme for Distributed Query Processing.	[5]
Q.3(b)	Explain distributed cost model with an example.	[5]
Q.4(a)	Explain optimistic concurrency control algorithms and “relaxed” concurrency control.	[5]
Q.4(b)	What do you mean by transaction model? Give an example for a transaction. What are the termination conditions of a transaction?	[5]
Q.5(a)	Draw a diagram and explain the full memory hierarchy managed by LRM and BM.	[5]
Q.5(b)	Explain the failures in DDBMS.	[5]

:::::09/12/2019M:::::