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Exam. Code : 206702 Subject Code : 4104

M.Sc. Computer Science 2nd Semester DISTRIBUTED DATABASE SYSTEMS Paper—MCS-205

Time Allowed—3 Hours]

[Maximum Marks—100

Note: Attempt five questions in all. Select at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- 1. (a) What are the different types of schemas in distributed databases? Explain.
 - (b) Discuss various levels of transparencies in a distributed system.10
- 2. (a) What is meant by transparency in a distributed system? Explain the use of integrity constraints.

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(b) What is the need of fragmentation in distributed systems? Explain.

SECTION-B

- 3. (a) Differentiate global query and local query. How a query can be applied on a fragment? 10
 - (b) How a Join and Union operation are used on a query in DDBMS? Explain.

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(Contd.)

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	4.	Exp	blain the following:		
		(a)	Unary Tree in a query.	10	
		(b)	Operations on query.	10	
			SECTION-C		
	5.	Discuss the following concepts by taking suitable examples			
		(a)	Algebraic Operations for query optimisation.	10	
		(b)	Relation Reduction using Semi Join.	10	
	6.	Exp	plain the following concepts:		
		(a)	Timestamping in distributed systems.	10	
		(b)	Recovery mechanism in Transaction failure.	10	
			SECTION-D		
	7.	(a)	What are two phase locking protocols? Experiments their use.	plair 10	
		(b)	Explain the methods used for deadlock prever in DDBMS.	ntion 10	
	8.	Wri	te notes on the following:		
		(a)	Reliability and concurrency control.	10	
		(b)	Authorization in DDRMS	10	