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Exam. Code : 208601 Subject Code : 4705

M.Sc. Information Technology 1st Semester DISTRIBUTED COMPUTING Paper-MIT-102

Time Allowed—3 Hours] [Maximum Marks—100

Note: — Attempt five questions, selecting at least one question from each Section and the fifth question may be attempted from any Section. All questions carry equal marks.

SECTION-A

- What are the objectives of using distributed systems?
 Discuss the architecture of different types of distributed systems.
- 2. (a) How communication is carried out using client server protocols for distributed systems? Explain.

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(b) Discuss the procedure for implementing RPC communication in distributed systems.

SECTION-B

- 3. (a) Explain the concept of synchronization in distributed systems.
 - (b) Discuss the role of different types of clocks in synchronization.

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(Contd.)

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4.	Dis	cuss the following concepts:	
	(a)	Thread synchronization.	10
	(b)	Transaction consensus.	10
		SECTION-C	
5.	(a)	How group models for service replication implemented? Explain.	
	(b)	Compare the models of client server and I	RPC. 10
6.	(a)	Compare client server and peer to peer Compa	uting.
	(b)	Differentiate multicast and atomic broadca	st. 10
7.	How security in distributed system is achieved? Discuss the procedure for implementing the cryptographic algorithms.		
8.	Wri	te short notes on the following:	
	(a)	Distributed shared memory.	10
	(b)	Access control in Distributed Computing.	10
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