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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

- 1. 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.

(b) Discuss the procedure for implementing RPC

communication in distributed systems. 10

#### 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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4.	Dis	scuss the following concepts:		
	(a)	Thread synchronization.	10	
	(b)	Transaction consensus.	10	
		SECTION-C		
5.	(a)	How group models for service replication implemented? Explain.	are	
	(b)	Compare the models of client server and F	PC.	
6.	(a)	Compare client server and peer to peer Compu	iting.	
	(b)	Differentiate multicast and atomic broadcas	st.	
		SECTION-D		
7.	the	v security in distributed system is achieved? Disprocedure for implementing the cryptograprithms.		
8.	Write short notes on the following:			
	(a)	Distributed shared memory.	10	
	(b)	Access control in Distributed Computing.	10	