Exam. Code : 208601 Subject Code : 4695

M.Sc. (IT) Semester—I DISTRIBUTED COMPUTING Paper—MIT-102

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any **five** questions. All questions carry equal marks.

- 1. What are various hardware and software issues of distributed systems ? Explain them in detail. 20
- 2. (a) Explain RPC by taking an example. 10
 - (b) What are main objectives of distributed systems ? Explain.
 10
- 3. (a) Explain the concept of mutual exclusion in distributed systems. 10
 - (b) Discuss the role of logical clocks and physical clocks in synchronization.
 10
- 4. What is Thread Synchronization ? Explain the implementation issues of Threads in distributed systems. 20
- 5. (a) What are the exceptions in Client Server and RPC models? 10
 - (b) Discuss the concept of Marshalling. 10

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(Contd.)

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6.	(a)	Compare Client Server and Peer-to-Peer.	10
	(b)	Differentiate between multicast and atomic broad	cast.
			10
7.	(a)	What is the concept of Naming and Loca	tion
	-	transparency in distributed file systems ?	10
	(b)	Explain DSM architecture in detail.	10
8.	Write short notes on the following :		
	(a)	Cryptography	10
	(b)	Cache Coherence.	10

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