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Exam. Code : 208601 Subject Code : 3693

M.Sc. Information Technology 1st Semester

MIT-102 : DISTRIBUTED COMPUTING

Time Allowed—Three 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 classifications of distributed systems ? Discuss the software issues of different types of distributed systems.
- 2. (a) How communication is carried out using layered protocols for distributed systems ? Explain. 10
 - (b) Discuss the procedure for implementing group communication in distributed systems. 10

SECTION-B

- 3. (a) Explain the concept of consistency in distributed systems. 10
 - (b) Discuss the role of different types of threads in synchronization.
 10
- 4. Discuss the following concepts :
 - (a) Logical clocks synchronization 10

(Contd.)

(b) Mutual exclusion. 10

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SECTION-C

- 5. (a) How peer to peer models for service replication are implemented ? Explain. 10
 - Compare the models of peer to peer and RPC. (b) 10
- 6. (a) Compare parallel and distributed computing.
 - (b) Differentiate reliability of multicast and atomic broadcast. 10

10

SECTION-D

- 7. Discuss cryptographic and access control methods for implementing security in distributed systems. 20
- 8. Write short notes on following :
- (a) Distributed shared memory architecture 10
 - (b) Cache coherence. 10

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