Exam. Code: 208601 Subject Code: 4811 10

Discuss the following concepts:

Synchronization in threads

Clocks and their types

9

10

(a) Replication of Peer-to-Peer systems

Explain the following:

SECTION-C

Broadcast in distributed systems

10

Discuss the performance measures for parallel

Computing.

(a)

9

(b) How replication is implemented in distributed

computing? Explain.

Discuss the architecture for distributed shared memory

SECTION-D

Write short notes on the following:

and message passing.

Security techniques

10

10

M.Sc. Information Technology 1st Semester (Batch 2021-23)

DISTRIBUTED COMPUTING

Paper: MIT-102

Time Allowed—3 Hours] [Maximum Marks—100

Note:—Attempt FIVE questions in all, selecting at least

ONE question from each section. The fifth question

may be attempted from any section. All questions
carry equal marks.

SECTION-A

- What are the features of distributed systems? Discuss
 the software issues of different types of distributed
 systems.
- 2. (a) What are the issues associated with communication layered protocols? Explain.
 - (b) Discuss the RPC for communication in distributed systems.10

SECTION-B

- 3. (a) Why consistency is required in distributed systems? Explain.
- (b) Discuss the role of broadcast in synchronization.

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