

Roll No.

24471

**B. Tech. 7th Semester (CSE)
Examination – February, 2022**

DISTRIBUTED OPERATING SYSTEM

Paper : CSE-423-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) What is RPC ? Explain.
- (b) What is thread ?
- (c) What is Atomic transaction ?
- (d) What is shared memory ?
- (e) What is the need of consistency in distributed system ?

UNIT – I

2. (a) What do you mean by Distributed Operating System ? Discuss the goals of Distributed Operating System.

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- (b) What is group Communication ? What are the various design issue for it.
3. (a) Explain bus based multiprocessor and bus based multicomputer.
- (b) What is ATM ? Describe ATM reference Model.

UNIT - II

4. What is deadlock ? How it can be handled in Distributed system ? Explain.
5. What is mutual exclusion ? Explain and compare various algorithm for mutual exclusion.

UNIT - III

6. (a) What is real time distributed system ? Also explain design issue in real time distributed system.
- (b) Differentiate between workstation model and processor pool model.
7. How distributed file system implemented ? Explain.

UNIT - IV

8. What is distributed shared memory ? Discribe different kind of shared memory multiprocessor.
9. Describe the concept of process management in MACH.