

Roll No.

Total Pages : 02

BT-7/M-20

37212

DISTRIBUTED OPERATING SYSTEM

IT-425N

Opt. I

Time : Three Hours]

[Maximum Marks : 75

Note Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

1. Explain the architecture of distributed operating system with the help of a suitable diagram. **15**
2. (a) Discuss the advantages and disadvantages of distributed operating system. **8**
(b) Explain the issues in distributed operating system. **7**

Unit II

3. (a) Discuss Machawa's algorithm. **8**
(b) Explain non-token based algorithm. **7**

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4. (a) Explain token based algorithm. **8**
(b) What is Tree based algorithm ? Explain. **7**

Unit III

5. Discuss the issues in deadlock detection and resolution in distributed operating system. **15**
6. Explain distributed and hierarchical detection algorithm. **15**

Unit IV

7. (a) Explain the design issues in distributed file system. **8**
(b) Write a short note on log structured file system. **7**
8. (a) What do you understand by load distribution. Discuss the issues in load distribution. **8**
(b) What is Task Migration ? Discuss the issues related with task migration. **7**