OLE-24471

B. Tech. 7th Semester (IT) Examination – April, 2021

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. Question No. **1** is *compulsory*. Remaining, attempt *one* question from each Unit. Each question carries equal marks.

1. Write short note on the following :   4 × 5 = 20

     (a) Remote Procedure Call

     (b) Mutual Exclusion

     (c) Real time distributed system

(d) Consistency Models

(e) Goals of Distributed System

UNIT – I

2. Write short note on the following : $10 \times 2 = 20$

(a) ATM Network

(b) Client - Server Model

3. What is Distributed System ? Describe its design issues in detail.   20

UNIT – II

4. Write short note on the following :

(a) Election algorithm   7

(b) Bully algorithm   7

(c) Ring algorithm   6

5. Explain Deadlock in Distributed Systems. How system detect Deadlock in Distributed system and perform its prevention method ?   20

UNIT – III

6. Write short note on the following : $10 \times 2 = 20$

    (a) Processor Allocation in Distributed System

    (b) Scheduling in Distributed System

7. What is Distributed File System ? Explain Distributed file system implementation.   20

UNIT – IV

8. What is Distributed Shared Memory ? Differentiate between Page based distributed shared memory and shared variables distributed shared memory.   20

9. Write short note on the following : $10 \times 2 = 20$

    (a) Process Management in MACH

    (b) UNIX emulation in MACH

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