

Roll No.

24471

B. Tech. 7th Semester (CSE)

Examination – December, 2016

DISTRIBUTED OPERATING SYSTEM

Paper : CSE-423-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the question, 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. Question No. **1** is *compulsory*. Attempt one question from each Section.

1. Explain the following :

4 × 5 = 20

- (a) Hardware concept of Distributed Operating System.
- (b) Threads
- (c) Shared Memory
- (d) UNIX Emulation in MACH.

SECTION - A

2. What is Distributed Operating System ? Explain design issues of DOS. 20
3. (a) Explain ATM network in detail. 10
(b) Explain client-server model. 10

SECTION - B

4. (a) What is the need of clock synchronization in distributed system ? Explain. 10
(b) Explain Atomic transaction in detail. 10
5. (a) Explain System Models in detail. 10
(b) How processors allocation is done in distributed systems ? Explain it in detail. 10

SECTION - C

6. Explain distributed file system design issues in detail. 20
7. What are consistency models ? Explain with suitable diagrams. 20

SECTION – D

- 8.** Define MACH. Explain process management in MACH. 20
 - 9.** Explain communication in MACH in detail. 20
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