

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech., Winter 2017 - 18 Examination

Semester: 1
Subject Code: 03201135
Subject Name: Distributed Operating System

Date: 02/01/2018
Time: 2:00 pm to 4:30 pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A). Define DOS and Explain the features of Distributed Operating System? (05)
B). Explain Transaction Recovery in Distributed Operating System (05)
C). Write a Short note on: Timestamp Ordering. (05)
- Q.2** Answer the following questions. (Attempt any three) (15)
A) Discuss the Desirable Features of a Good Message-Passing System.
B). What are the Difference Between Remote Procedure Call and Local Procedure Call? Explain lightweight RPC in detail.
C). Differentiate Tightly Coupled and Loosely Coupled Multiprocessor System.
D). Write a Short note on Domain Name System.
- Q.3** A). Explain Design Issues in Distributed Shared Memory System. (07)
B). Explain Write-through and Delayed-write Schemes of file Caching in Distributed System. (08)
- OR**
- B). Explain Concurrency Control Problems in Distributed Transactions. (08)
- Q.4** A). Explain Mutual Exclusion using Token Ring Algorithm. (07)
- OR**
- A). Explain Berkeley Algorithm with Example. (07)
B). Draw and Explain SUN Network File System. (08)