

**M.Sc. DEGREE EXAMINATION, APRIL 2020**  
**II Year III Semester**  
**Distributed Operating System**

**Time : 3 Hours**

**Max.marks :75**

**Section A** ( $10 \times 2 = 20$ ) Marks

Answer any **TEN** questions

1. Define LAN, MAN, WAN.
2. What is message passing?
3. Define shared memory
4. What is meant by Deadlock?
5. What is the need for scheduling algorithm?
6. Define threads.
7. How distributed file system works?
8. Define replication.
9. What is cryptography?
10. What is meant by digital signatures?
11. Define buffering?
12. What is meant by encode and decode?

**Section B** ( $5 \times 5 = 25$ ) Marks

Answer any **FIVE** questions

13. Write short notes on ATM Technology.
14. Discuss about the working of mutual exclusion?
15. What is meant by scheduling algorithms?
16. What are the Desirable features of a distributed file system?
17. How the authentication and access controls are carried out in DFS?
18. Explain File Accessing Models?
19. Define the following in brief:  
i) Unstructured and Structured files, ii) Mutable and immutable files

**Section C** ( $3 \times 10 = 30$ ) Marks

Answer any **THREE** questions

20. Explain in detail about networks types with suitable diagrams?
21. Describe about the architecture of distributed shared memory in detail.
22. Discuss in detail about the concept involved in process management.
23. Explain the following in brief:
  - i). Automatic Transaction, ii). Fault Tolerance
24. How to secure a computer from various attacks? Discuss in detail

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