

Roll No.

Total No. of Pages : 1

BT-5/D05
Operating System
Paper : IT-357

8879

Time : Three Hours]

[Maximum Marks : 100

Note :— Attempt any FIVE questions.

1. List five Services provided by an operating system. Explain how each provides convenience to the users. Explain also in which case it would be impossible for user-level programs to provide these services. 20
2. (a) What do you know about Interprocess Communication ? Explain it. 10
(b) Explain the process hierarchies and implementation of processes. 10
3. (a) Explain FCFS and SJF CPU scheduling. 10
(b) What do you know about CPU Utilization, Throughput, Turn around Time, Waiting time and Response time ? 10
4. (a) When do page faults occur ? Describe the actions taken by the operating system when a page fault occurs. 10
(b) Explain the page replacement algorithms. 10
5. (a) Explain the directory structure. 10
(b) Explain Disk Space Management. 10
6. Explain Deadlock detection and Recovery. 20
7. (a) Explain in detail UNIX operating system. 10
(b) What do you know about distributed system ? 10
8. Write short notes on :
 - (a) Client-Server model 6
 - (b) NFS 7
 - (c) Segmentation. 7

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300