Roli No. Total Pages: 02

BT-5/D-18

35016

OPERATING SYSTEM IT-357

Time: Three Hours] [Maximum Marks: 100

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

- What are the various types of operating system? Explain
 the various functions of operating system in detail with
 example.
- 2. (a) Explain various file properties and their access.
 - (b) Discuss designing of directory structure for operating system.

Unit II

3. What are various preemptive and non-preemptive CPU scheduling algorithms? Explain with Gantt Chart. What is the need of multilevel feedback queue scheduling?

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4. Find average waiting time for the following processes for SJF (with and without arrival time consideration) Round Robin with time slice 2 unit:

F	rocess	Arrival Time	CPU Burst
	P1	0	5
	P2	1	2
	P3	2	1
	P4	3	3

Unit III

- What are the three types of file organizations? List out the various disadvantages of linked list being used for disk space management.
- What are the various mechanism and policies for Protection? Explain in detail the use of Access Matrix with suitable example.

Unit IV

- (a) Discuss hardware and software concept of distributed system.
 - (b) Explain in detail NFS architecture and protocols.
- 8. Explain the salient features of UNIX operating system.
 What are the various advantages of client-server model?

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