

Jyothy Charitable Trust®

Jyothy Institute of Technology

Tataguni, off Kanakapura road, Bengaluru-560082 Approved by The All India Council for Technical Education(AICTE)-New Delhi Affiliated to Visvesvaraya Technological University(VTU), Belgavi

Department of Information Science & Engineering

Accredited by National Board of Accreditation (NBA) -New Delhi.

Assignment-1

Subject Name& Code: Operating Systems 21CS44

Course Faculty: Mrs. Anupama V P

Semester: IV sem

Date: 3/7/23

Submission by: 8/7/23

Sl.No	Assignment Questions	LL	CO
1.	a. What is Interprocess communication? Explain direct and indirect	2	CO1
	communication with respect to message passing system.		
	b. List and explain the services provided by OS for the user and		
	efficient operation of system.	2	CO1
2.	a. What is Interprocess communication? Explain direct and indirect	2	CO1
	communication with respect to message passing system.		
	b. What are System calls? Explain different types of system calls.	_	
	2 2 2	2	CO1
3.	a. What are interrupts? How is an interrupt handled by the OS?	2	CO1
	b. What is Pre-emptive scheduling and non pre-emptive scheduling?		
	Explain with examples.		
		2	CO2
4.	a. With diagram explain multilevel queue and multilevel feed back	2	CO2
	queue scheduling algorithms.		
	b. With example explain FCFS and SJF scheduling algorithms.		603
	Dui-Classon lain 41 a 1100 mark anitania Communication	3	CO2
5.	a. Briefly explain the different criteria for process scheduling.b. Calculate the average waiting time and the average turnaround time by	2	CO2
	drawing the Gantt chart using FCFS, and priority algorithms. Lower		
	priority number represents higher priority.	, ,	CO2
	priority number represents inglier priority.	3	CO2
	Process id Arrival time Burst Time Priority		
	P1 0 9 3		
	P2 1 4 2		
	P3 2 9 1		
	P4 3 5 4		

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