Course: Operating System and System Programming Lab

Course Code: CSTE-3108

Time: 1:30 Hours	SET-A	Marks: 40

1.	Write a C program to demons	strate the p	roducer-cons	sumer proce	ess.	15
2.						15
	process and the average waiting time for given n processes and their burst times.					
	Also, find the process executio	n sequence				
	Sample input:					
	Sample input.	Process	Burst time	Priority		
		P ₁	Durst time	2		
		-	<u> </u>	2		
		P ₂	1	1		
		P ₃	8	4		
an and a second		P ₄	4	2		
		P_5	5	2		
			,		1	
3.	Write a shell script to classify	a triangle	as Equilatera	al. Isosceles	s. or Scalene	10
	based on three given sides.		MYam	(OUT	PAYTE .	

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	Time: 1:30 Hours		SET-B	Marks: 40)
1.	Write a C program to solve solutions.	e the produce	r-consumer pr	roblem using Peterson	15
2.	Write an SJF Scheduling Pand the average waiting tin the process execution sequences ample input:	ne for given n r	determine the processes and t	waiting time for each process heir burst times. Also, find	15
		Process	Burst time		
		$\frac{P_1}{P_2}$	2		
		P_3	8		
		P ₄	4		
		P ₅	5		3
3.	100: 1.5 t, 101-400: 2.5 t, >	culate the elec =400: 4 ෑ; Input	ctricity bill bas total number	sed on the following rates: 0- r of units and calculate the	1
	bills.				