MAR-APRIL -2024

TOTALIN	o. of Questions . 5]	SEAT	No. :
PB83	30		Total No. of Pages : 2
		4-14	d Maragament & Fr
		A. (Management)	LIBRARY
	IT-14: OPERATINGS	SYSTEM CONCE	
Time · 2	(Revised 2020 Patt	ern) (Semester - 1)	
	ions to the candidates;		Max. Marks: 50
1)	All questions are compulsory.		\sim
2)	Draw the diagram wherever necessar	ry.	つ
	5	e e	
Q1) a)	Explain first come first serve (Fo	CFS) CPU scheduling	algorithm with the
set of 5 processes whose arrival time and CPU execution time [5]			
	Process Arrival Time (1	ms). CPU execution	n (ms)
	P1 0	8	
	P2 1	7	
	P3 2	5	
	P4	4	
	P5 4	2	
	Calculate the average waiting tin	ic & average turnarou	nd time
b)	Explain process states in detail		151
	OR	i -	
a)	Explain contiguous and non-contiguous memory allocation. [5]		
b)	Write a shell script program to p	rint even numbers bet	ween V to 20. [5]
Q2) a)	What are semaphores? Explain t	ypes of semaphores.	[5]
b)	What is paging? Discuss basic pa OR		ails. [5]
a)	What are various criteria for a goo	d process scheduling p	rocess scheduling
	algorithm? Explain any two peem	ptire scheduling algor	ithms in brief. [5]
b)	Explain features of Android OS.		5