4TH SEM / CS&E /IT/ 2023(S)

TH-1 Operating System

	Ful	ll Ma	arks: 80	-385	Time- 3 Hrs	
			Ans	swer any five Questions including Q No.1& 2		
			Fig	gures in the right hand margin indicates marks		
	1		Anguar All a	uestions 3	2 v 1	Λ
	1.		Answer All q	uestions	2 x 1	U
		a. b	Define PCB.	out outlibeling?		
		b.		ext switching?		
		c.		nal fragmentation.		
		d.	What is a sen			
		e.		ference between program and process.		
		f.	Define Dema			
		g.		mean by circular wait.		
		h.	Define file an			
		1.	What is Spoo			
		1.	wnat do you	mean by Virtual Memory?		
	2.		Answer Any S	Six Questions	6 x 5	
		a.	Briefly explain	n about contagious and non-contagious memory	,	
			management	2012		
		b.	Write the diff	ference between spooling and buffering.		
		c.	Define proces	ss and process state. Draw a suitable diagram to		
			=	ent states of a process.		
		d.	What is a Pag	e Fault? How it can be handled.		
		e.	Define dead l	ock. Explain Bankers algorithm for deadlock		
			prevention.			
		f.	Explain the fu	inctions of I/O traffic controller and I/O schedule	er.	
		g	Write short n	otes (any two)	35	
			a) Critical	section	50	
			b) Race co	ondition.		
			c) Proces	section ondition. s synchronisation.		
	3		Discuss about			
		20		t First Come First Serve (FCFS) and Shortest-Job-	riist 10	
-15				eduling with suitable example. ent structures of operating system.	10	
5201-	5		•		10	
5	6		•	y the various File Access Methods.	10	
	7		•	y different phases of a compiler.		
	/		Explain briefi	y about the different methods of allocating disk	Space. IV	