

Reg. N	No:]		
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR														
						(AU	TON	ΟΜΟ	JS)					
		B.Te	ch II `	Year l							s Octo	ober-2020)	
				(G SYS						
Time: 3	hours			(Comt	outer 5	cienc	e & Er	Iginee	ring)		N	Iax. Marl	cs: 60
Time. 5	nouis						РА	RT-A				14		x3. 00
				(A	nswer	all the		stions	-	= 10 N	Marks)			
1	a Wł	nat is a	in Ope	rating	syste	m?								2 M
	b Define process.											2 M		
	c Define semaphores.											2 M		
	d Explain Page Fault.e What are File Attributes?												2 M 2 M	
PART-B														2 1 1
(Answer all Five Units 5 x $10 = 50$ Marks)														
				[×]				NIT-I						
2	a _E		1. 1.6	6	6		. <u> </u>		4		1 1		•	5 M
	Explain the different functions of an operating system and discuss the various												arious	
	services provided by an operating systemb Write the differences between monolithic kernel and microkernel.											5 M		
			anner	chicos				OR	nor un	u 11110	1011011			
3	What	are the	funct	ionaliti	ies of	Operat	ing Sy	ystems	? Expl	ain in	detail			10 M
							UN	NIT-II						
4	Consider 3 processes P1, P2 and P3, which require 5, 7 and 4 time units and arrive													
				3. Drav	w the	Gant	chart,	proce	ss cor	npleti	on sec	quence an	id averag	e
	waiting time for.													
	i. Round robin scheduling with CPU quantum of 2 time units.ii. FCFS.													
	n. r c	15.						OR						
5	a Wi	rite the	diffei	rence b	betwee	en use		-	d and	kernel	l level	thread.		5 M
	b Wł	nat is a	proce	ss? Exj	plain I	Process	s Cont	rol Blo	ock.					5 M
							UN	IIT-II	ſ					
6		plain t							Probl	em.				5 M
	b W1	rite abo	out De	adlocl	k Prev	ention								5 M
-	D'	1	1	C 11	• •	C		OR	• ,					10 14
7	Discu	ss abo	ut the	follow	ving 1)	Sema	_							10 M
Q	Diam	aa ah a		in a set of		- f		IT-IV						10 M
8	Discu	iss ado	ut ann	erent	lypes	or pag	-	or or or other or other or other or other	nt aige	orithii	is with	n example	•	10 M
9	a Wi	nat is S	Segme	ntatio	1? Ex1	olain v		-	e.					5 M
		plain a	-		-	Jiani v		Aumpi	0.					5 M
				00	,		UI	NIT-V	1					
10	a Explain the concept of file with Example.													
		n plain a		-			-							5 M
		-						OR						
11	Expla	in file	alloca	tion n	nethod	ls in de	etail.							10 M
						*	**DN	D***						
						•	1 U N							

END