Q.P. Code: 20CS0507												R20				
	Reg. No:]				
	SIDDH	IART	H INS	TITU	TE O	FEN	GINE	ERIN	G &	ГЕСН	INOL	OGY::]	PUTTUI	R		
(AUTONOMOUS)																
B.Tech II Year I Semester Regular & Supplementary Examinations March-2023 OPERATING SYSTEMS																
				(Com												
	(Common to CSE, CAD, CSM, CIC & CCC) Time: 3 hours										N	Max. Marks: 60M				
				(Δ	newoi	r all Fi	vo Ur	ite 5 x	- 17 -	60 M	[arke)	· · ·			101	
				(A	.115 W C1			NIT-I	- 12 -	00 101	lai k5)					
1	a List and discu	uss the	e diffe	rent fi	unctic	ons of			g svst	em			CO 1	L1	6M	
	a List and discuss the different functions of an operating systemb Explain different operations performed by the operating system.												CO 1	L2	6M	
		•	-	-			(OR								
2	a Define System												CO 1	L1	6M	
	b Evaluate diff	erent	types o	of syst	tem ca	alls in	-		ystem				CO 1	L5	6M	
2	a Show the usage of process synchronization.												CO 1	10		
3	b Define sched	0	-					ithm					CO 2 CO 2	L2 L1	6M 6M	
	b Denne sened	uning	.пурта	III 0)1	Sciico	uuiiig		OR					002	111	UIVI	
4	a Explain the S	Structu	ire of	user le	evel tl	hread	and k	ernel	level t	hread	1.		CO 2	L4	6M	
	b List the Adva	antage	s of U	LT an	d KLI	Γ.							CO 2	L1	6M	
							UN	IT-III								
5	a What is Mor		*		*								CO 3	L2	6M	
	b Write Short	notes	on Cla	ssical	Probl	lem of		hroniz OR	zation	•			CO 3	L1	6M	
6	a Construct Di	nning	Philo	sophe	rs Pro	blem.		OR					CO 4	L6	6M	
	b Develop Rea	0		-									CO 4	L2	6M	
							UN	IT-IV								
7	Discuss in detai	il virtu	ial mei	mory.									CO 5	L2	12M	
•		1.					(OR						T 4		
8	a Classify Thra	0		ng.1		1521	625	621	261	212	Comm	oro the	CO 5	L4	6M	
	b Given page reference string:1,2,3,2,1,5,2,1,6,2,5,6,3,1,3,6,1,2,4,3. Compare number of page faults for LRU, FIFO and Optimal page replacem												CO 5	L5	6M	
	algorithm.	P-8-		101	,		, uni	. opi		P-80	ropia	contente		20	0111	
							UN	IIT-V								
9	a Demonstrate	goals	of pro	tectio	on in t	he OS							CO 6	L2	6M	
	b Explain abou	t Prin	ciples	of Pro	otectio	on.							CO 6	L2	6M	
10	Instify disital -	anote		oto:1			(OR					CO 6	TC	1014	
10	Justify digital si	ignatu	ie ili d	etall.									CO 6	L6	12M	

*** END ***

		b Explain different equations performed by the operating system.	
	×	 Define System call. List different types of system calls Evaluated different types of system calls in operating system. 	
		a Charity Eliteriting. h Given page reference writecil 23.21.521.62.553.13612.63. Compare the	
		number of page faulte for LEO. FIFO and Opticeal page replacement	
		TIVIU	
		a Demonstrate goals of protection in the OS.	