	KYUN	1115-		0		1	T .01		
		V L) I	Systems	Design	Qu:2	(2017	hall)		
				(17)			right		
1	1.	VAD XX	T	(R)	T. gate	Ourre	right after	this +	ron
(77 - **				-			
	Inpm 1	9		<u>Y</u>	DV Z	X	bre Charged	ero Vpp	
		GNA	4		6	, = (=			
	(5) at t	ne the siz	e of pMoso	nd nMos (3)	Source	13 VA	o-> No bo	dy effe	et
	(2) at +	ne r-gal	e 15 2 R q	md R D.	- operation	m Region	· Vas	Vps -	V+
		-0-b-M	₹° ±3 c		: So	aturation	hegi m	-140-	-0
			, 0	(3)	- Idsp.	= B (1	1950 - VAD)(1+7	N V
	olel	ay = 2k	60-2= 3	20	* 5 Gn	ne or	1gsp - Vxp Idsn. >	I= 2.	IId
		V	5						
	2. (1) (2)	PDN.	1,	pun					
	66				i/				
	A		11/2 1		A	16B	26		
	В						<u>^</u> 1/		
	P		4	sc Fo4	-01	33-0/			
		A	B		Α-	-(08			
			4		β-	1	V		
	c) l	ayout (sm	uller gunt a ct	s, taps)			5=		
	9		-/	5 C , u			02		
	Ü		r roag -	σ, α	mi, u	me .			
	e)	IZ	load =	4x3c,	unit: t	me			
	0								
	£ (2+3+3 to	P)C						
				11 . +				(15)	
	3. Kyshir	the by (a) body b) ATRI	effect		at le	ast 5 is	ncludin	9
			9 92BL	-		5 Cans	est phen	romino	1+
			d) NBT	E					
			<u> </u>	lectrons - channel.	elleit				
	5	10	. 1	5	20	25		30	

5	9Т, ЭБ.	affective cham trapped charge	el length T	nt / (xadepends =) leakage W	
10	Ф П, ⑤ П,	BP7BN > Vds7 → lateral	VIL > VIL-morter	thed, VzH. ? VIH-n HT => trapped cha 5:11: con body T	notiched > NMH (NML)
15					
20			1901		
25					
30					
35					
40					
45					
50					