3.7

	4.5		
Name: KY/O NESS QU	J <b>IZ #1</b>	Student ID:	10/6
- 45 Minutes, No materials allowed. ( <u>number</u> ) indicates weighting.  1. How do we 2's complement a hex number? Please describe two ways			
using "73A16". (0.5)  You can convert to bing		1	•
to hex of you co	in subti	-act each Hex	digit from Fond
Implement the expression AB +	>10	<b>ω</b> ,	ABI
XNOR ABB	_		10 0
3. Show two three-bit shift registers			
register will be serially transferre flops for each shift register. If or	iginal value	of X register is "101"	, what is
the content of Y registers after se Assuming (Y) = 000 at Start contents	of Mi		er seand pulse
D X2 D X1 I	X Xu	par V2	D Y, D Yo
			The state of the s
A certain memory has a capacity and data output lines does it have	e? (b) How		
have? (c) What is its capacity in have & Jaa	0/P/I/P		
B It will have a 17 = 18		· ·	
d It's capacity in by tesi lby te long and it 8. It is desired to combine several 2	5128k	b/c each wo	irdis 8 bitsor
7. It is desired to combine several 2 of 16K × 8. How many PROM ch	K × 8 PRON	Ms to produce a total ded? How many add	וכי capacity cess lines
are required? Provide address ra	_		
You willneed 8 PROT	1 chips	You will rea	juire /Haddress
line S consisting of a	Slines	goingtog 3to	· 8 decoderts
Select which chip on	a u live	5 to select the	e address from

the Chip 9"=20486t). N 3

50000-07FF,0800-0FFF,1000-17FF,1800-1FFF 3000-27FF

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2100-2FFF, 3200-37FF, 3800-3FFF