L20Q1	What happens when a logical "1" is applied to the gate?			1	
12001	A conductive channel forms connecting D and S				
	formed by electrons being attracted to the area between the source				
	and drain.				
L20Q2	What happens when a logical "0" is applied to the gate?				
22002	A conductive channel forms connecting D and S				
	formed by holes being attracted to (electrons being pushed away from)				
	the area between the source and drain.				
L20Q3	What is the output voltage when the input is connected to ?	0	V		+
L20Q3	What is the output voltage when the input is connected to SND?	VDD	V		
L20Q4 L20Q5	Complete the truth table.	V D D			
12003	· ·				
	input output A Z			+	+
	1 0			+	+
				+	+
L20Q6	Cpmplete the truth table.	0-1 and y-1			
L20Q6 L20Q7	Complete the truth table.	ρ=1 and γ=1			
1200/	epinpiete the truth table.			+	+
	A B C Z1 Z2			+	+
	0 0 0 1 0				
	0 0 1 1 0				
	0 1 0 1 0				
	0 1 1 1 0				
	1 0 0 1 0				-
	1 0 1 0 1				
	1 1 0 0 1				
	1 1 1 0 1				
12000	Attampt to complete the twith tables				
L20Q8	Attempt to complete the truth tables.				
	A B Z1 A B Z1				
<u></u> -⊺	0 0 1 0 0 1				
t	0 1 ? 0 1 ?				
	1 0 ? 1 0 ?				
T	1 1 0 1 1 0				
					
12000	11	40	<u> </u>	40*404.42	+-
L20Q9	How much energy is stored in each gate (C=1*10^-12F=1fF) if charged to VDD?	18	fJ	18*10^-12	J
L20Q10	How much energy is consumed from the voltage source to charge it?	36	fJ	36*10^-12	J
L20Q11	How many $2fF$ caps are switched at $1V$ every ns to dissipate $100W$?			1	+
120042	if =1, =50000000				+
L20Q12	If the total number of transistors on a chip is 1 billion, what is ?				
120043	=.05 which represents 5% of the transistors are active.				
L20Q13	Complete the truth table.			1	
	A B Z1			+	1
	0 0 1			+	_
	0 1 0			1	_
	1 0 0				_
	1 1 0			1	_
L20Q13	Complete the truth table.				
	A B Z1				
	0 0 0				
	0 1 1				
	1 0 1				