**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Id: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Determine the representation of (36 )10 using the following code 5421 (1)

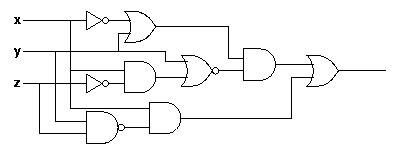
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1. Add the following two BCD numbers, (1001 0111 0010) + (0011 0010 1000) (3)

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1. Calculate the propagation delay of the following logic diagram (1)

Knowing the propagation delay of the following gates: NOT gate=3nsec AND gate & OR gate=10 nsec NAND gate & NOR gate=13 nsec XOR gate=20nsec XNOR gate=23 nsec



1. Draw the logic diagram for the following function after simplification using k-map,

F(A,B,C,D)= m(0,1,12,13,15)+d(4,5,7,14) as PoS (5)

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