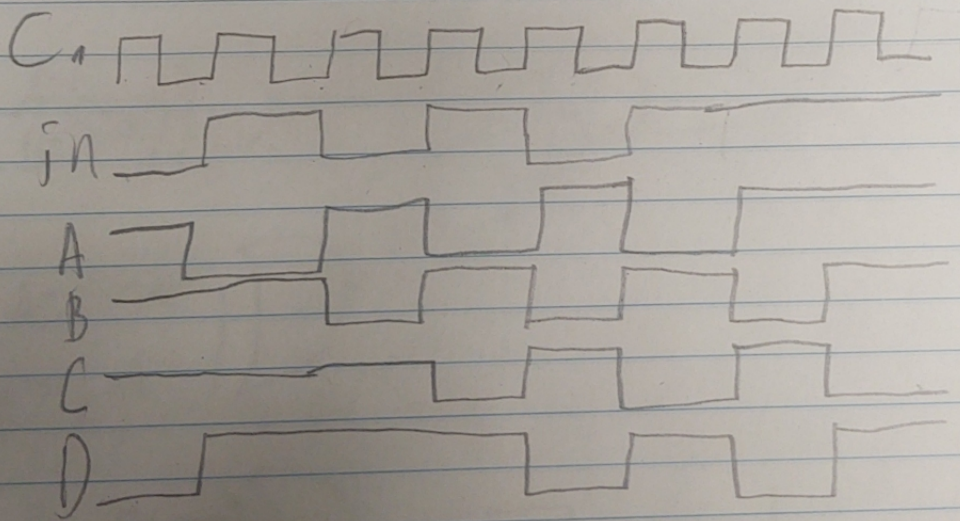
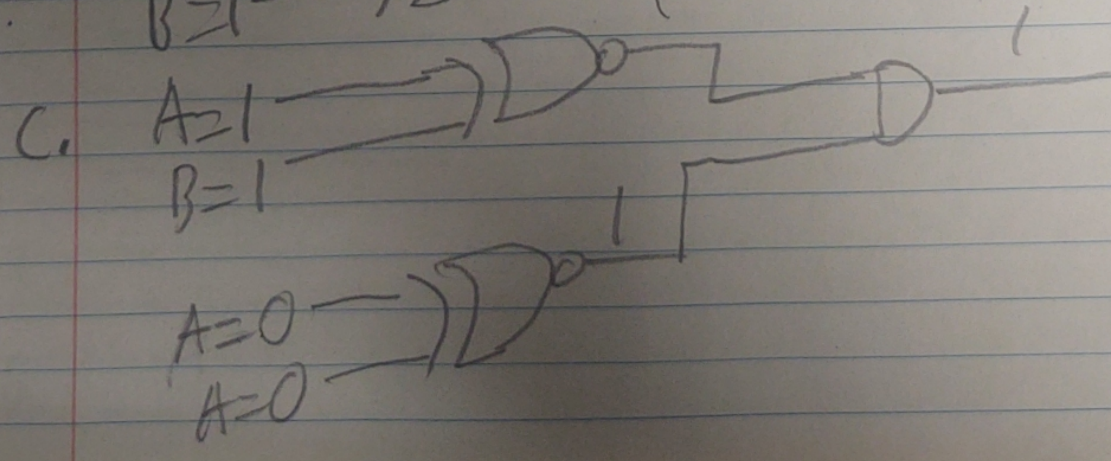
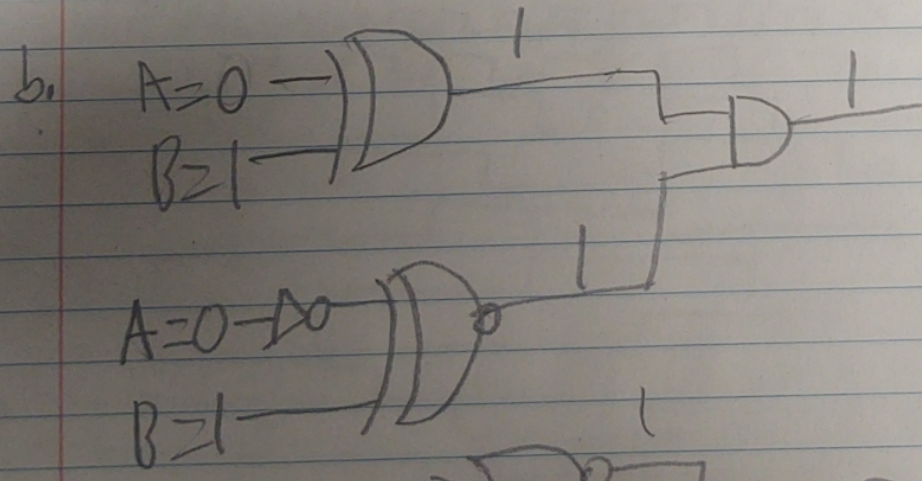
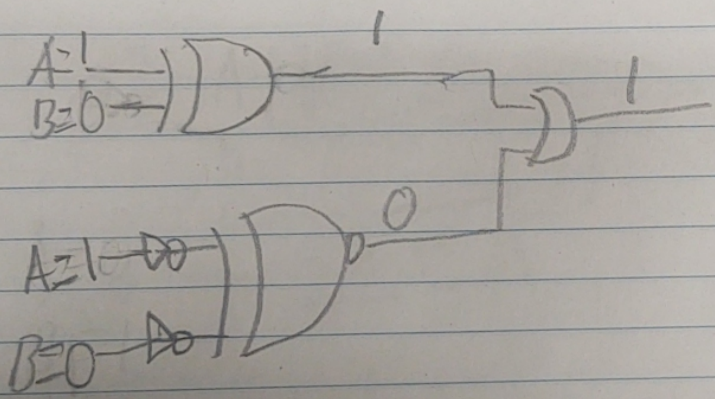
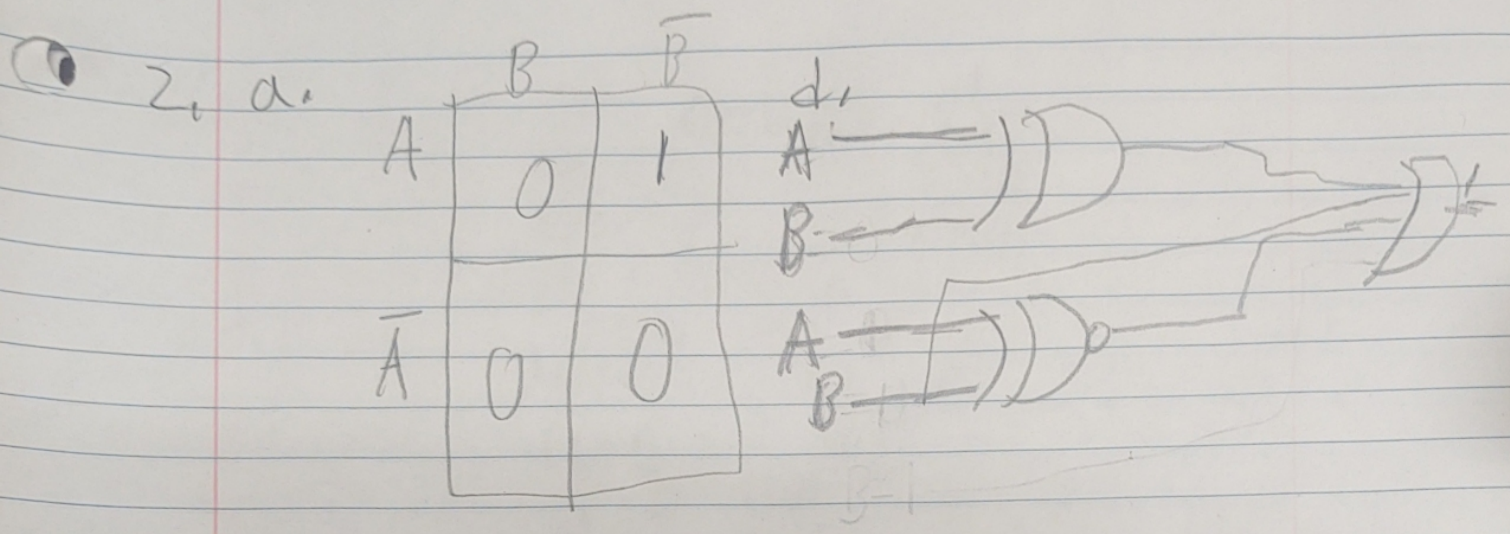


Midterm #2

1. a. $\frac{1}{32\text{ns}} = 32^{-1}\text{GHz} = 0.03125\text{GHz}$

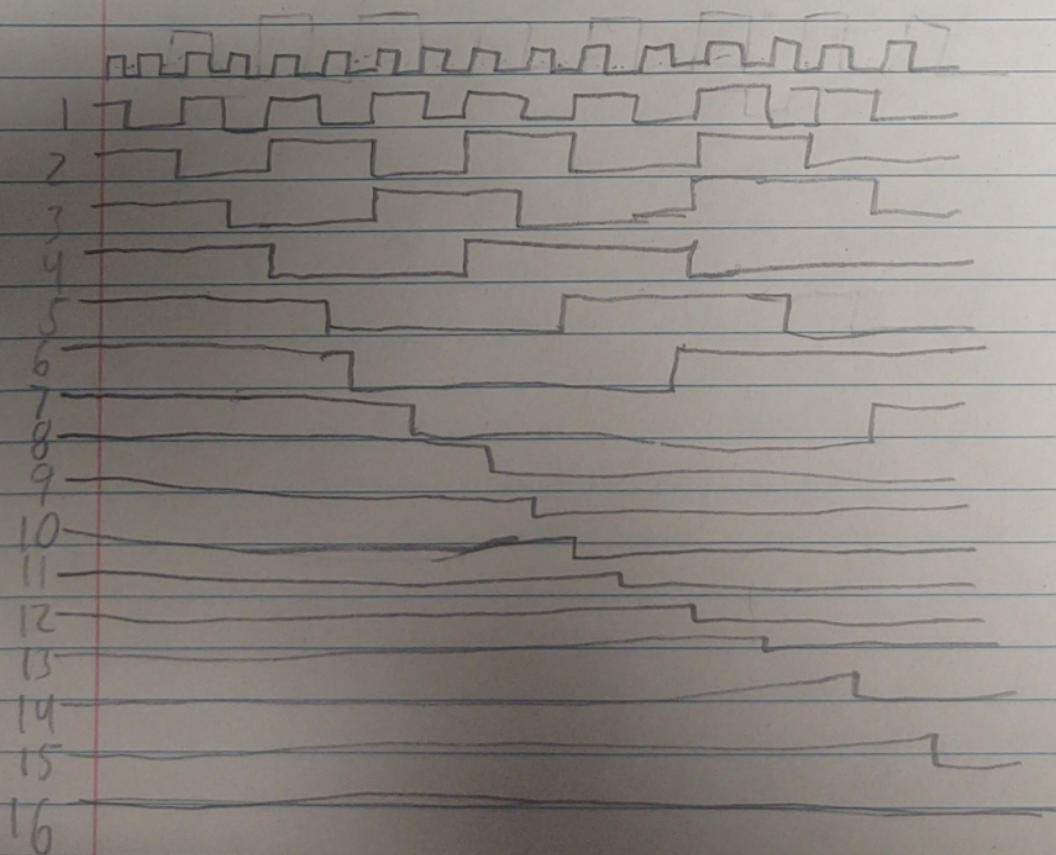
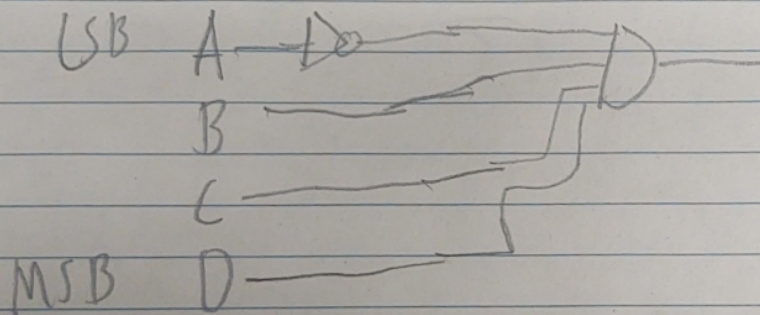
b. $\frac{1}{64\text{ns}} = 64^{-1}\text{GHz} = 0.015625\text{GHz}$



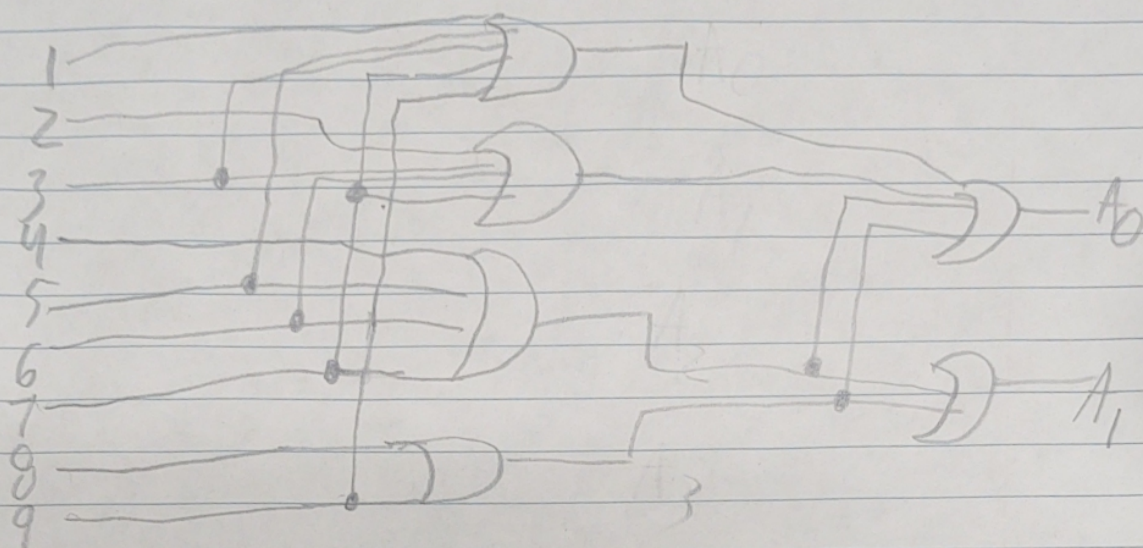


3.

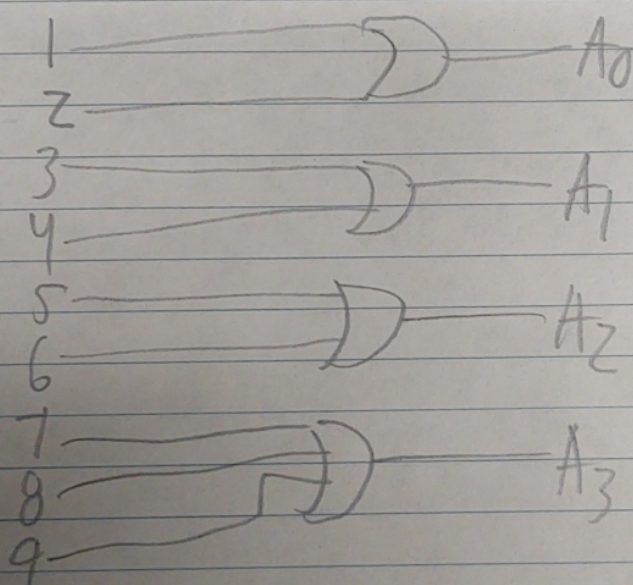
0000 0000 0001
 1000 0011
 1001 0010
 1011 0110
 1010 0111
 1110 0101
 1111 0100
 1101 1100



4. a.



b.



c.