$$\frac{1}{\sqrt{1-1}} \frac{1}{\sqrt{1-1}} \frac{1$$

- Since input is low-to-high, I, output is high to low.

- Since input Iz is output II, Iz output is low-to-high.

=> Cakulating both delays according to their characters;

$$t_{PLH_{R}} = (C_{L}/C_{N}) \cdot \zeta = \left(\frac{C_{P_{2}} + C_{N_{2}}}{C_{N_{1}}}\right) \cdot \zeta = \left(\frac{c_{0} k (4.1.10^{-12} + 2.1.10^{-12})}{c_{0} k (4.1.10^{-12})}\right) \cdot \zeta = b \cdot \zeta = b \cdot \zeta = b \cdot \zeta$$

## 17 All statements are FALSE

a) Increasin Wn - 7 decreasing Rn -> Increased leakage currents -> Vou can't increase.

b) tpu = spZp -> Wn has no effect in this equation.

c) 
$$M = \frac{N_{00} - 1V_{TP}I + \sqrt{\frac{Bn}{Bp}}V_{Tn}}{1 + \sqrt{\frac{Bn}{Bp}}} \sqrt{\frac{(2) Ln'}{(2) Lp'}}$$
 could differ. There is no certainty.