## Homework Assignment 7 <br> (Due 4:10pm, Mar. 20)

[Delay, 50 points] Compute the Elmore delay of the circuit shown below for the following inputs. $R_{n}$ : Resistance of an NFET. $R_{p}$ : Resistance of a PFET. $C_{L}$ : Load capacitance. $C_{1}, C_{2}, C_{3}$ : Parasitic capacitances.

(1) 10 points. $\mathrm{ABCD}=1110$.
(2) 10 points. $\mathrm{ABCD}=1000$.
(3) 10 points. $\mathrm{ABCD}=1001$.
(4) 10 points. $\mathrm{ABCD}=1010$.
(5) 10 points. $\mathrm{ABCD}=0110$.

