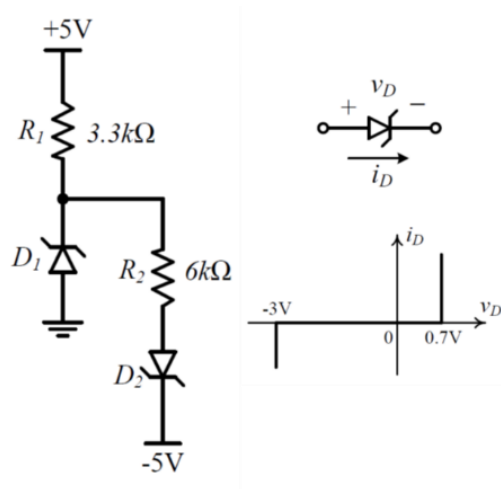
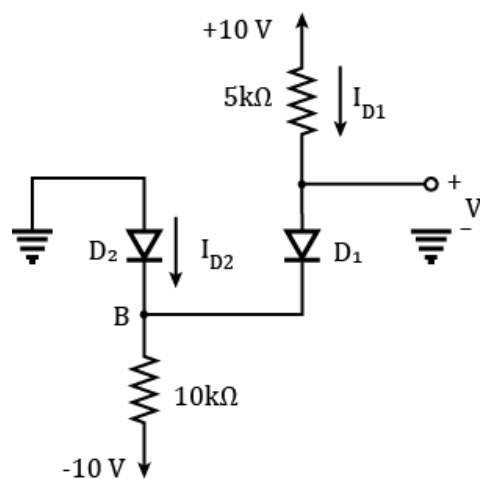


WORKING QUESTIONS

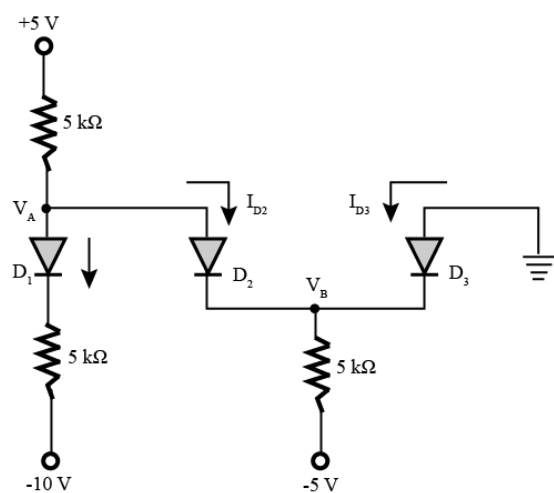
1. Find the current and voltage values of the Zener diodes I_{D1} , V_{D1} , I_{D2} , and V_{D2} . Use the constant drop model, shown in Figure at the right, for Zener diodes. Solve the circuit for $V_1=5V$ and $V_1=10V$



2. In the diode circuit shown below, what is the value of voltage “V”?



3. In the diode circuit shown below, calculate the value of the voltage for each diode. Use a constant voltage drop diode model with $V_d = 0.7V$.



4. For the circuit shown below, the value of V_0 is ____ $\sin \omega t$ mV. (Assume thermal voltage $V_T=26$ mV, $n =1$, and cut in voltage $V_D=0.7$ V, (capacitor is short circuited at signal frequency)).

