EE 210   **MINI-QUIZ #7A**   **24.3.21**
Total Marks: 10   **Total Time: 10 mins.**

V_i, V_o have both DC (V_I, V_0) and ac (v_i, v_o) components. Find V_I and v_o/v_i if the DC power dissipation of the circuit is 5 mW.

Data: for M_1: $V_{TN0} = 0.7$ V, $k'_N = 40$ μA/V^2, $(W/L) = 1$; for Q_2: $\beta = 100$.

Neglect body effect, CLM effect, Early effect.