

EE 203 Electronics I

Quiz # 3

Name: _____

I.D.# _____

Ser.# _____

Sec.# _____

For the NMOS amplifier, derive expression for the small voltage gain $\frac{v_d}{v_i}$ and the output resistance seen at drain in terms of transistor parameters and the passive resistances. Ignore the small signal resistor of the transistor (r_o) in your analysis. Show all steps.

