

## QUIZ NO. 10

NAME \_\_\_\_\_ Score \_\_\_\_\_ /10

The FET in the amplifier shown has  $g_m = 1\text{mA/V}$ ,  $r_d = \infty$ ,  $C_{gd} = 0.5\text{pF}$ , and  $C_{gs} = 10\text{pF}$ . (a.) Find the midband gain,  $V_{out}/V_{in}$ .  
 (b.) Find the upper -3dB frequency,  $f_H$ , in Hz.

