

QUIZ NO. 9

NAME _____ Score _____ /10

A BJT transistor amplifier is shown. If $g_m = 20\text{mA/V}$, $r_{\pi} = 5\text{k}\Omega$, $C_{\pi} = 1\text{pF}$, and $C_{\mu} = 5\text{pF}$, find numerical values for (1) the midband gain (MBG), (2) the upper -3dB frequency in Hertz using Miller's approach and (3) the upper -3dB frequency in Hertz using the open-circuit time constant approach.

