

1. For the circuit in Fig. 1, $I_{in} = 100 \mu A$, $R_s = 1 k\Omega$. Assume each transistor has $W = 10 \mu m$, $L = 0.2 \mu m$, body effect $g_{mb} = 0.2 g_m$, $\mu C_{ox} = 110 \mu A/V^2$ and $\lambda = 0.15 \mu m/V$. Calculate R_{out} . (5)

