AAST
Faculty of Engineering
CE-Department
Instructor:Dr.M. El-Banna

Sixth term
EC233: Electronic Circuits I
Year: 2004/2005
Sheet:6

Calculate the high frequency cut-off, f_H, for the 2N3904 transistor. Assume that a CE amplifier is used and that $\beta = 200$, $I_{CQ} = 10mA$, $R_B = 5k\Omega$, $R_s = 1k\Omega$, and $R_L = R_C = 1k\Omega$. Further assume that you have checked the data sheet and found out that $f_T = 0.25GHz$, and that $C_{OB} = 45pF$.