Short Quiz - 1 **Name:**_____

EE-407 Sec 1 (Set A) **ID No:**_____

Q.1 If a 10 meter length of copper wire has $\sigma=5.8\text{x}10^{7}$ mho/m, $\mu_r=1$, $\mu_0=1.2566\text{x}10^{-6}$

(i) find the skin-depth of the wire at 1000 MHz.

Q.2 The primary constants for a coaxial cable, at a frequency of 4 GHz, are L=52 nH/m, C=213 pF/m, R=5 Ω/m, and $G=6.2\text{x}10^{-3}$ mho/m. Determine;

(i) the propagation constants of the wave along the line.