Short Quiz - 5	Name:	
EE-407		
Set A	ID No:	

Q.1 (a) Design a quarter wavelength microstrip section that will match a load $\mathbf{Z_L} = 9$ m m5 Ω with a $\mathbf{Z_0} = 50$ Ω transmission line. Assume the available microstrip have h=1.5 mm, ϵ_r =2.2 , μ_r =1 , t/h=0. (Given: ϵ_0 =8.854x10⁻¹² , μ_0 =4π x 10⁻⁷)

(b) If the propagating signal has a frequency of 5 GHz, what modification needs to be integrated in the design (if any).