Question 1

- a) What is an active filter? What are its types?
- b) Derive the magnitude and the phase of the system gain of the low pass active filter with a pass-band gain Apb = 10 dB, RF = $10k\Omega$ and Rs = $1.1k\Omega$.
- c) Plot the magnitude and phase frequency response curve for the low-pass active filter of Question 1b).