## Q1:

$R_L = 1\ k\Omega$, Bandwidth = 10 GHz, find the noise current and noise voltage

Noise current : 0.4 µA

Noise voltage : 0.4 mV

$$F_N = 2dB \quad T = 25°C \quad R_D = 0.8\ {A}\!\!\diagup\!\!{W}$$

## Q2:

Let $R_d$ = 1.2, Optical Power = 1 mW for a 10 GHz system
Find the shot noise current and voltage for a load of 1 kΩ –
(assume dark current is 0)