

## QUIZ 1-A

Time: 20 minutes

Dated: September 25, 2023

1. Find the *number of electrons* set liberated in a sensor if:  
Irradiation =  $10\lambda^2$  photons/(sec)  $\text{nm}^2$

Area =  $5 \text{ nm}^2$

Time period = 120 sec

Quantum efficiency = 10 %

The photon flux is in the range of *visible wavelengths*. (5)

2. **Differentiate between *progressive* and other video scanning with at least one advantage & disadvantage.** (5)