Subiectul D. OPTICA

Nr. item	Soluţie/Rezolvare
III.a.	$\nu = \frac{c}{\lambda}$ $\nu = 6 \cdot 10^{14} Hz$
b.	$\nu_0 = \frac{c}{\lambda_0}$ $E_{cin}^{max} = \frac{hc}{\lambda} - L$ sau $E_{cin}^{max} = L\left(\frac{\lambda_0}{\lambda} - 1\right)$ $E_{cin}^{max} = 0,42$ eV sau $E_{cin}^{max} = 0,672 \cdot 10^{-19}$ J
c.	$E_{cin}^{max} = \frac{mv_{max}^2}{2}$ $v_{max} = \sqrt{\frac{2E_{cin}^{max}}{m}}$ $v_{max} \cong 3,9 \cdot 10^5 m/s$
d.	$eU_{STOP} = E_{cin}^{max}$ $U_{STOP} = 0,42$ V