Subiectul D.OPTICĂ

Nr. item	Soluţie/Rezolvare
III.a.	$\nu = \frac{c}{\lambda}$ $L_{01} = \frac{hc}{\lambda_{01}}$ Rezultat final: $L_{01} \cong 5{,}48 \cdot 10^{-19}\, J$
b.	$L = h\nu_0$ $\lambda_{02} = \frac{hc}{L_{02}}$ Rezultat final: $\lambda_{02} \cong 550 nm$
c.	$\frac{hc}{\lambda_{01}} = L_{02} + \frac{mv_{max}^2}{2}$ $v_{max} = [\frac{2}{m}(\frac{hc}{\lambda_{01}} - L_{02})]^{\frac{1}{2}}$ Rezultat final: $v_{max} \cong 6{,}24 \cdot 10^5\, m/s$
d.	$eU_s = \frac{mv^2}{2}$ $U_s = \frac{mv^2}{2e}$ Rezultat final: $U \cong 1{,}1 V$