Subiectul B.ELEMENTE DE TERMODINAMICA

II. a.	$m_{01} = \frac{\mu_{N_2}}{N_A}$ $m_O = \frac{\mu_{O_2}}{2N_A}$ $\mu_{O_3} = 3m_O \cdot N_A$ Rezultat final: $m_{01} = 5,3 \cdot 10^{-26}$ kg ; $\mu_{03} = 48 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
b.	$\frac{1}{\mu} = \frac{\nu}{m} = \frac{m_1 : \mu_1 + m_2 : \mu_2 + m_3 : \mu_3}{m}$ Rezultat final: $\mu = 29,36 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
c.	$\rho = \frac{m}{V} = \frac{\mu p}{RT}$ Rezultat final: $\rho = 1,2 \frac{\text{kg}}{\text{m}^3}$
d.	$\frac{1}{\mu'} = \frac{\nu'}{m} = \frac{m_1 : \mu_1 + (m_2 + m_3) : \mu_2}{m}$ $\mu = 29,09 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$ Rezultat final: scade cu $\Delta\mu = 0,27 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$