Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$m = \dfrac{N_1}{N_A}\mu_1$ Rezultat final: $m = 55{,}78\,\text{g}$
b.	$\overline{\mu} = \dfrac{N_1\mu_1 + N_2\mu_2}{N_1 + N_2}$ $N_2 = \dfrac{N_1(\overline{\mu} - \mu_1)}{\mu_2 - \overline{\mu}}$ Rezultat final: $N_2 = 4 \cdot 10^{23}$
c.	$n = \dfrac{N_1 + N_2}{V}$ $P_0 V = \upsilon R T_0$ $N = \dfrac{N_A p_0}{R T_0}$ Rezultat final: $n = 2{,}68 \cdot 10^{25}\,\text{m}^{-3}$
d.	$\rho = \dfrac{m_1 + m_2}{V} = \dfrac{\mu p_0}{\upsilon R T_0}$ Rezultat final: $\rho = 1{,}28\,\text{kg/m}^3$