Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$N_1 = \dfrac{m_1}{\mu_1} N_A$ Rezultat final: $N_1 \approx 12 \cdot 10^{23}$ molecule de azot
b.	$N_2 = \dfrac{V_{02}}{V_{\mu 0}} N_A$ Rezultat final: $N_2 \approx 4 \cdot 10^{23}$ molecule oxigen
c.	$m = m_1 + m_2 \Rightarrow \nu\mu = \nu_1\mu_1 + \nu_2\mu_2$ $\dfrac{N_1 + N_2}{N_A} \mu = \dfrac{N_1}{N_A}\mu_1 + \dfrac{N_2}{N_A}\mu_2$ $\mu = \dfrac{N_1\mu_1 + N_2\mu_2}{N_1 + N_2}$ Rezultat final: $\mu = 29$ g/mol
d.	$c_1 = \dfrac{m_1}{m_1 + m_2} = \dfrac{1}{1 + \dfrac{N_2\mu_2}{N_1\mu_1}}$ $c_1 + c_2 = 1$ Rezultat final: $c_1 = 77,7\%$; $c_2 = 22,2\%$