

**Subiectul B. ELEMENTE DE TERMODINAMICĂ**

<b>II. a.</b>	$N = \frac{m}{\mu_{O_2}} N_A$ <p>Rezultat final: <math>N = 1,2 \cdot 10^{24}</math></p>
<b>b.</b>	$V = \frac{m}{\mu_{O_2}} V_{\mu 0} \text{ sau } V = \frac{mRT_0}{\mu_{O_2} p_0}$ <p>Rezultat final: <math>V = 45,37 \cdot 10^3 \text{ m}^3</math></p>
<b>c.</b>	$\frac{1}{\mu} = \frac{V}{m} = \frac{m_1 \cdot \mu_1 + m_2 \cdot \mu_2}{m_1 + m_2}$ <p>Rezultat final: <math>m_2 = 168 \text{ g}</math></p>
<b>d.</b>	$p = \frac{m}{\mu} \frac{RT_0}{V} \text{ sau } p = p_0 + p', \quad p' = \frac{m_{N_2}}{\mu_{N_2}} \frac{RT_0}{V}$ <p><math>m = m_{O_2} + m_{N_2}</math></p> <p>Rezultat final: <math>p = 4 \cdot 10^5 \text{ Pa}</math></p>