## Subjectul B.ELEMENTE DE TERMODINAMICĂ

II. a.	
	$N = v_{O_2} N_A$
	Rezultat final: $N = 1,2 \cdot 10^{24}$
b.	
	$V = \frac{V_{O_2}RT_0}{}$
	$ ho_0$
	Rezultat final: $V = 45,37 \cdot 10^{-3} \text{ m}^3$
C.	
	$\mu = m - v_{0_2} \mu_{0_2} + v_{N_2} \mu_{0_2}$
	$\mu = \frac{m}{v} = \frac{v_{o_2} \mu_{o_2} + v_{N_2} \mu_{o_2}}{v_{o_2} + v_{N_2}}$
	Rezultat final: $v_2 = 6$ mol
d.	
	$p = \frac{vRT_0}{V}$ sau $p = p_0 + p'$ , $p' = \frac{m_{N_2}}{\mu_{N_2}} \frac{RT_0}{V}$
	$m = m_{O_2} + m_{N_2}$
	Rezultat final: $p = 4 \cdot 10^5 \text{ N/m}^2$