<b>Subjectul</b>		(45 puncte)
	Soluţie, rezolvare	Punctaj
I . 1.	d.	3p
2.	b.	3p
3.	b.	3p
4.	a.	3p
5.	C.	3p
TOTAL S		15p
B. Subiec		
II .a.	Pentru:	3р
	$\frac{p_0}{2} \cdot a \cdot S = \nu R T_1$	
	rezultat final: $a = 28 \text{ cm}$	
b.	Pentru:	4p
	$\frac{N}{V} = \frac{p_0 \cdot N_A}{2RT_1}$	
	$V = \frac{1}{2RT_1}$	
	rezultat final: $\frac{N}{V} \approx 1.3 \cdot 10^{25} \text{ m}^{-3}$	
	Pentru:	4p
L C.	$V_1 = V_2$	46
	$\frac{p_0}{2T_1} = \frac{p_0}{T_2}$	
	$2T_1$ $T_2$	
	rezultat final: $T_2 = 560 \mathrm{K}$	
d.	Pentru:	4p
	$p_2 = p_3 = p_0 $ 1p	
	$V_2 = 2V_2$ $T = 2T$	
	$\frac{V_2}{T_2} = \frac{2V_2}{T_3} \Rightarrow T_3 = 2T_2$	
	rezultat final: $T_3 = 1120 \mathrm{K}$	
TOTAL	Subject II	15p
B. Subiectul III		
	Pentru:	3р
	3	'
	$U_1 = \frac{3}{2} \nu R T_1 $ 2p	
	rezultat final: $U_1 \cong 3,74 \text{ kJ}$	
b.	Pentru:	4p
	$V_3$	-
	$Q_{\text{primit}} = vC_V(I_2 - I_1) + vRI_2 \ln \frac{\sigma}{V_2}$	
	rezultat final: $Q_{primit} \cong 18,1  kJ$ 1p	
C.	Pentru:	4p
	$L = L_{12} + L_{23} + L_{34} + L_{41} $ 1p	
	$L = 4vRT_1 \ln \frac{V_3}{V_2} + vRT_1 \ln \frac{V_1}{V_4}$ 2p	
	rezultat final: $L \cong 5,16 \text{ kJ}$	
d.	Pentru:	4p
	reprezentare corectă 4p	•
TOTAL	Subject III	15p