CHM151 Quiz5 25 Pts Spring 2015 Name:						
$P_1V_1 - P_2V_2$				62.37L . Torr	0.0821L · atm	8.314J
$T_1 = T_2$	$\mathbf{P}_{1}\mathbf{V}_{1}\mathbf{T}_{2} =$	$P_2V_2T_1$	PV = nRT	$R = \frac{\text{mol} \cdot K}{\text{mol} \cdot K}$	mol·K	mol·K
Molar masses:	Ht = 4.00,	K = 39.01,	Mn = 54.94,	O = 16.00, S = 32.06		
found to	contain 1.2	7 mol CO <sub>2</sub> , 3,	.04 mol CO, and	are of 1,380 mmHg at 29 d 1.50 mol Ar. What is	the partial pressur	m l+g
p = 1	ity = 5 atm	9 + 1	02 gas, in grams	V= 17.95		821L: atm) 328K no 1:10 1.50tm
T = 5	5+273	= 328/	<b>T</b>	Density 17	7.952	(-12)
this craft A H C H	such that gas e is lost 2.8 t e is lost twice		y into outer space an $O_2$ is lost. 2 is lost.	and 0.500 atm of He. If the ce,  B) He is lost 8 tim D) O <sub>2</sub> is lost 2.8 tim	nes faster than O <sub>2</sub> :	is lost. 1 - 1 M2
				d final state for an ideal prature (°C) of the gas?	gas.' Given that the	e amount of gas does
		1.10 atm 1.25 atm	1.30 L 1.30 L	$\frac{25 \text{ °C}}{7} = \frac{1.25a}{1.10a}$	tm (298K)	= 339K
	mperature ac	cording to the	uce very high p e following cher nO <sub>4</sub> (s) + MnO <sub>2</sub>	_	ratory is to decom	pose KMnO <sub>4</sub> (s) at
If 2.50 Assum	L of O <sub>2</sub> (g) is	needed at 1.0	00 atm and 20.°	C. what mass (in grams)	of KMnO <sub>4</sub> (s) sho	uld be decomposed?
		02	1	completion.  821 Estan  7.959 KMn04 -		
	inge in the pr	ocess, what v		d final state for an ideal plume (L) of the gas? $\frac{T}{25.80}$	gas. Given that the	e amount of gas does
0		30 mmHg 20 mmHg	1.2 L	58°C (720 mm Hg) (830 mm H	(1.2L) (35 (1.2L) (35	$\frac{3+273}{73)} = 0.97$
				(900) William	1) (30	