Mank you (P25)

	Physical Chemistry_Chpt	_One_Properties of	Gases 2-11-201
Name of a student Sho	ms Hakkyismal	nature	Ala Alay abon Ala Alay abon No. No.
University of Musta	ansiriyah		1st Semester-2021
Department of Che	emistry		1st Exam-paper B
Q1: Circle the right answer	er for all of the following:		(50 points)
	acity contains a certain amoun lume 10000 mL at 40 °C. What b) 1.0 mmHg		d) 1.5 bar
	are polar that means the differ	ence between pideal and	Prealis
Answer: a) low	b) equal	c) high	
3: Calculate the temperate Answer: a) 40.2 °C	ure of 5000 mmol of a gas occu b) 40.2 K c) 44	upying 5.0 dm ³ at 3.3 10 b.2 °C d) 44.	
4: Calculate the weight of	NH ₃ (17 g.mol ⁻¹) in a 4 L cylind	er at 8 atm and 300 K.	0
Answer: a) 22.11 kg	b) 22.11 g c) 23 K d)	23°C \$	4,30
5: Calculate the pc of a ga	s, if the pr is 0.44 and p is 1 bar		
Answer: a) 2.27 K b) 2.27 atm c) 2.27 L d) 2.2	7 mol 5/5	
6: If the attraction forces a Answer: a) real	are calculated, that means the b) noble c) pe	The state of the s	npressed
	's law total mole fraction is eq b) Σp _i c) Σp _T	ual to? d) Σχ	
8: What is the partial pres	sure of a gas in a mixture, if th	e X _i is 1, and the conditi	ons are at STP?
Answer: a) 0.99 torr	b) 0.89 bar c) 0.900 atn	d) 1.01 bar	30
9: At high pressure the Z > Answer: a) Van der Wa	1 which means the dominated al's b) equal	d forces are?	d) attractions
10: According to Avogadro Answer: a) 1.00 mol	b) 2.00 mol c) 1.00 mmc	STP is? ol d) 2.00 mmol	
	le 3.5 L container has a pressu der to decrease the pressure to		ould the volume of the container (25 points)
Q3: A 3 dm ³ container ho	ds 0.5 moles of N ₂ gas at 42 O	C. What is the pressure	inside the container? (25 points)

