2)	(P) -7 1	(SO) Fifty &
Physical Cher	nistry_Chpt_One_Properties of G	23-11-21 John A R
	Al-Staar	ALOW Wobor
Name of a student Tabara Kemao		No.
University of Mustansiriyah		1 st Semester-2021
Department of Chemistry		1st Exam-paper A
Q1: Circle the right answer for all of the for		(50 points)
	ىن، لار دمائت يروطين محور	
1: If a gas has a non-polar particle then th	A CONTRACTOR OF THE PARTY OF TH	^/
الله ماد معنون خادم	val VPerfect c) VReal = VPerfect	-515
2: A gas occupies 300000 mL at 130 °C and		
Answer: a) 203.22 mL b) 203	.22 dm ³ c) 204 L d	1) 204 dm ³
3: Calculate the weight of CH ₄ (16 g.mol ⁻¹)	parameter than the parameter property of the parameter p	K.
Answer: a) 95.33 g mol ⁻¹ b) 95.33 g	c) 95.33 mol d) 95.33 kg	general
4: Calculate the number of moles for CH ₄ in	2 10000 ml winder at 106 Pa and 22 0	79
Answer: a) 4.5 mol b) 4.0 mol c) 4	A CONTRACTOR OF THE PARTY OF TH	
a, no mor a, no mor e, a	d) and miles	1 30
5: According to Graham's law the heaviest		MEN
Answer: a) H ₂ O b) CH ₄	c) NH ₃	35)
6: A 20 L tank contains a certain amount		to another tank 40 dm ³ . What
should be its pressure?		Pivi=P2 V2
	50 atm d) 0.50 mmHg	103
رفعاً لفادون	idias laboriu	
7: According to the Avogadro's law the am		nal with?
Answer: a) p b) T c) R	d) V (e) n	
الفادل كفيفي المائل		
8: The difference between real and ideal g Answer: a) law p & high T b) hig		T / d\\langle = 0 \langle = T
Answer: a) law p & high T (b) hig	h p & law T C high p & high	T d) law p & law T
9: It can know the density of a gas by apply	ing one of the following?	
	raham's law c) Charles's law d) Gay-L	ussar's law 5
32.	o, chances have a configuration of cary in	
10: If V _m is bigger than V ^o m then this mean	s the behaviour of a gas is?	
Answer: (a) Real (b) Ideal (c) Real & i		
N. T.	als	V
Q2: A (28 mol) gas sample has a mass of 1	0000 mg. The volume of a container is 2	22 dm ³ at a temperature of 76
^o C and a pressure of 641 Torr. What is the		(25 points)
34	a start	A (25 points)
Q3: An Ar gas is placed in a container at 3	OC at a pressure of 730 torr. What is the	he volume of the container in
cias, vile	Total a pressure of 750 torr. Writat is the	2 2000000000000000000000000000000000000
ml?		(25 points)
- AN OXER	1000 Jely 1	
09/11/2021	Best wishes Dr	Abduljabbar I. R. Rushdi

PM=OLRT I town = I atm RT 64/ about 35-71 Kg/mot 0.0822 9tm. L/kg.mst *349 K I torr= latm V = 1 * 0-0822 Atm X/8-ms * 303 K 730 g/x schould be convented to atm

U= 0.034 -> 0.034 = 3-4x105 mL