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Physical Chemistry_Chpt_One_Properties of Gase	1-2 July
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Name of a student Hanin Salah Hassa Signature - Hassa Signature	No.(-5)
University of Mustansiriyah	1 st Semester-2021
Department of Chemistry	1 st Exam-paper €
Q1: Circle the right answer for all of the following:	(50 points)
x P	
1: A vessel of 5000 mL capacity contains a certain amount of gas at 313 % and 2 bar pre	ssure. The gas is transferred
to another vessel of volume 10000 mL at 40 °C. What should be its pressure? P2 Answer: a) 1.0 atm b) 1.0 mmHg c) 75 cmHg d) 1.1	24-180
Answer: a) 1.0 atm b) 1.0 mmHg c) 75 cmHg d) 1.1	ogar
2: If the particles of a gas are polar that means the difference between pideal and preal is	
Answer: a) low b) equal (c) high	
3: Calculate the temperature of 5000 mmol of a gas occupying 5.0 dm ³ at 3.3 10 ⁵ Pa?	
Answer: a) 40.2 °C b) 40.2 K c) 44.2 °C (d) 44.2 K	100
4: Calculate the weight of NH ₃ (17 g.mol ⁻¹) in a 4 L cylinder at 8 atm and 300 K.	- 36
	0.50
Answer: a) 22.11 kg b) 22.11 g c) 23 K d) 23 °C	
5: Calculate the pc of a gas, 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) 2.27 mol	
6: If the attraction forces are calculated, that means the gas is?	
Answer: a) real b) noble c) perfect d) compresso	ed
Stys Lotte & stude	
7: According to the Dalton's law total mole fraction is equal to?	
Answer: a) Σn b) Σp _i c) Σp _T d) Σχ	
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8: What is the partial pressure of a gas in a mixture, if the X _i is 1, and the conditions are at STP?	
Answer: a) 0.99 torr b) 0.89 bar c) 0.900 atm d) 1.01 bar	
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9: At high pressure the Z > 1 which means the dominated forces are? Answer: a) Van der Waal's b) equal c) repulsions	1
C) repulsions Q di att	ractions
10: According to Avogadro's law the amount of a gas at STP is?	
The state of the gard of the allount of a gas at 514 is:	

Answer: (a) 1.00 mol b) 2.00 mol c) 1.00 mmol d) 2.00 mmol V esseus

ماصومجمهذا الوعاء اذا ارماكم Q2: The air inside a flexible 3.5 L container has a pressure of 115 kPa. What should the volume of the container be increased to in order to decrease the pressure to 625 torr? (25 points)

Q3: A 3 dm³ container holds 0.5 moles of N₂ gas at 42 °C. What is the pressure inside the container? (25 points) 5001 1600 Deel 200

Thum.

66/11/2021

Best wishes

Dr Abduljabbar I. R. Rushdi

