	E		45 Fourty Amp
Physical	Chemistry_Chpt_One_I	Proportion of Change	(100) Rusher
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Name of a student McNiaw Ageel Signature No. 5			
University of Mustansiriyah			
Department of Chemistry			1st Exam-Repeat_1
Q1: Circle the right answer for all of t	the following:		(50 points)
1: Calculate the weight of C <sub>2</sub> H <sub>4</sub> gas (26 g mol <sup>-1</sup> ) in a 10000 Cm <sup>3</sup> cylinder at 1520 mmHg and 90 °C.  Answer: a) 17.47 g <sup>-1</sup> b) 17.47 g <sup>-1</sup> c) 17.47 mol d) 17.47 g e) 17.47 mg			
2: When V <sub>Real</sub> > V <sub>Perfect</sub> , this means that	And the second s	E	CEVA.
Answer: a) perfect ا	o) noble C) real		
3: The difference between real and ideal gas equation, that the ideal gas equation is not interested in?  Answer:  a) pgas & ngas  b) V <sub>container</sub> & p <sub>attraction</sub> c) V <sub>gas</sub> & p <sub>attraction</sub> d) T <sub>gas</sub> & p <sub>gas</sub>			
4: Calculate the density of C <sub>2</sub> H <sub>4</sub> is placed in a 50000 Cm <sup>3</sup> container at 760 torr and 273 K.  Answer: a) 1.16 g <sup>-1</sup> L <sup>-1</sup> b) 1.16 g <sup>-1</sup> L c) 1.16 g L <sup>-1</sup> d) 1.16 mg L <sup>-1</sup>			
5: Graham's law studies the of the gas.			
Answer: a) flow b) collision c) diffusion d) effusion			
6: The right formula of the Dalton's law is?			
Answer: a) $p_i = \chi_i \sum p_i$ b) $p_i \neq \chi \sum p_T$ c) $p_T = \chi_i \sum p_i$ d) $p_i = \chi_T p_T$			
7: The law of Corresponding states is a	on evidence that the gas is?		
Answer: a) real b) ideal	c) expanded	d) compressed	e) heavy
8: The total mol fractions of atmospheric pressure of air is equal to?			
Answer: a) zero b) one	c) two	d) three	ny? (5)
9: A gas occupies 30 × 10 <sup>-3</sup> m <sup>3</sup> at 75 °C and 76 CmHg pressure. What would be its volume at STP?			
Answer: a) 23.5 dm <sup>3</sup> b) 23.5 m <sup>2</sup> c) 23.5 L <sup>-1</sup> d) 23.5 m <sup>-3</sup>			
10: When the value of Z > 1 this means			
Answer: a) attraction	(b) van der Waal	c) repulsion	d) compression
Q2: The following data have been observed for 5000 mg of unknown gas at 0 °C. Calculate the best value of the			
molar mass of this gas, and what			0.25 (25 points)
	V/dm <sup>3</sup>	9.33 11.60 2	7.50
Q3: A perfect gas undergoes isothermal compression, which reduces its volume by 1.80 dm <sup>3</sup> . The p <sub>f</sub> and V <sub>f</sub> of			
the gas are 197 atm and 2.14 dm³, respectively. Calculate the poriginal of the gas in (a) bar, (b) torr. (25 points)			
Sun_28/11/2021	With best my wishes	Dr Abo	luljabbar I. R. Rushdi

