

	Physical Chemistry Properties of	Gases
Name of a student	Signature Signature	Sr. Flow)
University of Mustansiri		1 st Semester-2021
Department of Chemist	ry	1 st Exam-paper B
Q1: Circle the right answer for a	ll of the following:	(50 degree)
1: Carbon dioxide is classified as Answer: a) toxic gas b) id		510
or volume and the pressure is	certain amount of gas at 0.5 atm pressure 0.25 bar. What should be it is Volume? 46 dm³ c) 0.4 bar d) 4 bar	2. The gas is transferred to another vesse
3: A gas occupies 400 dm ³ at 130 Answer: (a) 270 L b) 207 dr	o ^o C and 76 cmHg pressure. What would I	oe it is volume at STP?
4: Calculate the weight of H ₂ (2.0 Answer: a) 0.40 mol ⁻¹ b) 0.	00 g.mol ⁻¹) in a 2 L cylinder at 2.5 atm and 40 g c) 0.40 mol g ⁻¹ d) 0.4 g mol ⁻¹	127°C.
<u>Answer:</u> a) 3.25 mmol (b) 3	s for CO ₂ in a 10 L cylinder at 8 bar and 2 3,00 mol c) 3.00 L d) 2.99 mol	Э°С.
6: According to Graham's law the Answer: a) H ₂ b) O ₂ c) N ₂	d) CO ₂	(Q(50)
Allswer: a) mol b) T c)R	(15)	onal with?
8: If a gas has Vm ≠ V°m then this Answer: a) real b	means one of the following? b) noble c) deal d) hear	y Of
9: If RT > pV this means the forces Answer: a) attraction b) re	s dominated are? epulsion c) Van de Waal's d) no one	of these
10: According to Gay-Lussac's law Answer: a) constant	the volume of the gas is? variable c) equal to zero	d) equal to 22.4 L
Q2: Under the same conditions o	f temperature and pressure, how many	times faster will hydrogen effuse
compare to carbon dioxide.	NO ANSWE	(25 degree)
Q3: Calculate the density of carbo	on dioxide (44 g mol ⁻¹) at STP.	(25 degree)
	JO ANSWE	ROPE
Wed_20/01/2021	Best wishes	Dr Abduljabbar I. R. Rushdi