



	Physical Chemistry-Prope	erties of Gases	Tables Russell
Nama of a stall in Map	اسک است. Signature		wy abbor Russ
Name of a student	ah		No4
Department of Chemistr			1st Semester-2021
Q1: Circle the right answer for all of the following:			1st Exam-paper A
			(50 degrees)
2: What is the right formula of the	c) 10 dm ³ c) 0.1 dm ³	d) 0.1 bar	ssure. The gas is transferred e vessel?
Answer: a) $\frac{r_1}{t_2} = (\frac{r_2}{M_1})^{\frac{1}{2}}$	b) $\frac{1}{r_2} = \left(\frac{M_1}{M_2}\right)^{\frac{1}{2}}$ c) $\frac{d_1}{d_2} = \left(\frac{M_1}{M_2}\right)^{\frac{1}{2}}$	$(\frac{M_2}{M})^{\frac{1}{2}}$ d) $\frac{r_1}{r_2}$	$= \left(\frac{d_2}{M_3}\right)^{\frac{1}{2}}$
3: Calculate Z for a gas if T is 22 °C	V _m is 5 dm ³ mol ⁻¹ and p is 3 ba (c) 0.62 d) 6.2	1/2	M ₁ / S
Answer: a) 32 g.mol ⁻¹ b) 32 g	c) 50 g.mol ⁻¹ d) 50 g	2atiliand 281 K.	
5: Calculate the V°m of a gas, if p is	1 atm and temporature is 22 of		
Answer: a) 25 K	o) 25 atm (c) 25 L mol 1	d) 25 mol	40
6: If the attraction forces are neglig Answer: a) real b) noble c) pe	rfect d) expands		(9, 30)
7: According to the Dalton's law the Answer: a) mol b) dm ³	c) psi d) free	(8)	
8: What is the partial pressure of a gamma Answer: a) 760 mmHg b) 10 bar	gas in a mixture if the X _i is 0.1, a c) 0.1 atm d) 1 bar	and under atmospheri	c pressure?
9: If the value of R is 0.082 then the Answer: a) Pascal b) mmHg	c) Psi d) bar	(5/3)	
	$p = p_c$ c) $p_r/p_c = p$	d) $p_r = p_c p$	
Q2: Calculate the mass of 335 mL of pressure.?	sulfur dioxide (64 g mol-1) mea	asured at 37 °C and 74	5 mm Hg
			(25 degrees)
Q3: Calculate the volume of 0.25 g o	f oxygen at 25 °C and 742 mm	Hg pressure.	(25 degrees)

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Best wishes

Dr Abduljabbar I. R. Rushdi

(25 degrees)