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Name of a student Signature	No
University of Mustansiriyah	1st Semester-2021
Department of Chemistry	1st Exam-paper B
Q1: Circle the right answer for all of the following:	(50 degree)
: Carbon dioxide is classified as a .	
Answer: a) toxic gas b) ideal gas c) real gas d) heavy gas	
2: A 2 dm ³ container contains a certain amount of gas at 0.5 atm pressure. The gas is to of volume and the pressure is 0.25 bar. What should be it is Volume? Answer: a) 0.40 atm b) 0.40 dm ³ c) 0.4 bar d) 4 bar	ransferred to another vessel
Answer: a) 270 L b) 207 dm ³ c) 207 m ³ d) 204 cm ³	e at STP?
l: Calculate the weight of H ₂ (2.00 g.mol ⁻¹) in a 2 L cylinder at 2.5 atm and 27 °C. Answer: a) 0.40 mol ⁻¹ b) 0.40 g c) 0.40 mol g ⁻¹ d) 0.4 g mol ⁻¹	(20)
Calculate the number of moles for CO ₂ in a 10 L cylinder at 8 bar and 27 °C. Answer: (a) 3.25 mmol (b) 3.00 mol (c) 3.00 L (d) 2.99 mol	(9150)
According to Graham's law the lightest gas is? Answer: a) H ₂ b) O ₂ c) N ₂ d) CO ₂	
: According to the Boyle's law the pressure of a gas is inversely proportional with? Answer: a) mol b) T c) R d) V	
i: If a gas has Vm ≠ V°m then this means one of the following? Inswer: a) real b) noble c) ideal d) heavy	و ۱۹۱۷ د ۱۹۱۸
: If RT > pV this means the forces dominated are? answer: a) attraction b) repulsion c) Van der Waal's d) no one of these	
O: According to Gay-Lussac's law the volume of the gas is? unswer: a) constant b) variable c) equal to zero	ual to 22.4 L

Q2: Under the same conditions of temperature and pressure, how many times faster will hydrogen effuse compare to carbon dioxide. (25 degree)

Q3: Calculate the density of carbon dioxide (44 g mol⁻¹) at STP.

(25 degree)

Q 23/1 $\frac{1}{2}$ = $\frac{1}{12}$ = $\frac{1}{12}$

Q3:11

d=MP

PV=mRT

F=0c°+243

=743

P=1atm

d=1.966

R3.m3

G=1.966

R3.m3

G=1.966

R3.m3