Chemistry

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More Multiple Choice Practice- Choose the best answer for each of the following.

\_\_\_\_ Under which conditions will a gas behave most ideally? 1. (A) low P and high T (B) low P and low T (C) high P and low T (D) high P and high T (E) a gas will be have ideally at all conditions \_ A sample of neon gas has a volume of 248 mL at 30.°C and a certain pressure. What volume 2. would it occupy if it were heated to 60.°C at the same pressure? (A) 226 mL (B) 273 mL (C) 278 mL (D) 496 mL (E) 124 mL 3.\_\_\_\_\_ A gas is collected in the flask shown here. What is the 42 mmHg pressure exerted by the gas if the atmospheric pressure is 735 mmHg? 汕 (A) 42 mmHg (B) 693 mmHg (C) 735 mmHg (D) 777 mmHg (E) 84 mmHg A sample of oxygen gas and a sample of an unknown gas are weighed separately in the same 4. evacuated flask. Use the data given to find the molar mass of the unknown gas (assume experiments are carried out at the same pressure and temperature). 124.46 g Mass of evacuated flask

mass of cracated mask	121.10 5			
Mass of flask + oxygen	125.10 g			
Mass of flask + unknown gas	125.34 g			
(A) 22 g/mol (B)	38 g/mol (C) 4	14 g/mol	(D) 84 g/mol	(E) 66 g/mol

5.\_\_\_\_\_ A gas mixture at  $27^{\circ}$ C and 760 mm Hg contains 1.0 g each of He, H<sub>2</sub>, N<sub>2</sub> and CO<sub>2</sub>. How do their average molecular speeds compare?

6.\_\_\_\_\_Helium is often found with methane, CH<sub>4</sub>. How do the diffusion rates of helium and methane compare at the same temperature? Helium diffuses

(A) sixteen times as fast as methane. (B) four times as fast as methane.

(C) twice as fast as methane. (D) at the same rate as methane. (E) half as fast as methane.

7. Which pair of gases has the same average rate of diffusion at 25°C?
(A) He and Ne (B) N<sub>2</sub> and O<sub>2</sub> (C) N<sub>2</sub>O and CO<sub>2</sub> (D) NH<sub>3</sub> and HCl (E) SF<sub>6</sub> and Xe
8. A gas has a volume of 6.0 L at a pressure of 0.80 atm. What is the volume if the pressure is

A gas has a volume of 6.0 L at a pressure of 0.80 atm. What is the volume if the pressure is changed to 0.20 atm at constant temperature? (A) 1.5 L (B) 2.0 L (C) 12 L (C) 12 L (C) 12 L (C) 0.06 L

(A) 1.5 L (B) 3.0 L (C) 12 L (D) 24 L (E) 0.96 L

9.\_\_\_\_\_ A 0.239 g sample of a gas in a 100-mL flask exerts a pressure of 600 mmHg at 14 °C. What is the gas? (A) chlorine (B) nitrogen (C) krypton (D) xenon (E) oxygen

 10. What pressure (in atm) will be exerted by a 1.00 g sample of CH<sub>4</sub>, in a 4.25 L flask at 115°C?

 (A) 0.139 (B) 0.330 (C) 0.467 (D) 7.50 (E) 8.46 

 11.\_\_\_\_\_\_A gas in a closed, flexible container is slowly cooled from 50 °C to 25 °C. What is the ratio of the final volume of the gas to its initial volume? Assume ideal behavior.

 (A) 2/1
 (B) 1.08/1
 (C) 0.923/1
 (D) 0.5/1

<ul> <li>13Oxygen, which is 16 times as dense as hydrogen, diffuse: (A) 1/16 times as fast(D) 1/4 times as fast. (B) 10 times as fast(D) quarks as fast as hydrogen.</li> <li>14Which graph to the right best represents the variation in the vapor pressure of water as temperature changes?</li> <li>15For which two gases are the rates of effusion 2:1? (A) H<sub>2</sub> and H<sub>c</sub> (B) H<sub>c</sub> and O<sub>2</sub> (C) Ne and Kr (D) Ns and Ar</li> <li>16Which gas has a density of 0.71 g L<sup>-1</sup> at 0°C and 1 atm? (B) Nc (C) CO (D) CH4</li> <li>17What is the molar mass of a gas that has a density of 5.66 g L<sup>-1</sup> at 3°C and 720 mmHg is heated to 100 °C in a container of constant volume. What is the molar mass of a gas intially at 50 °C and 720 mmHg is heated to 100 °C in a container of constant volume. What is the molar mass of a gas in flo 0 grams of in occupy 448 liters at 273 K and 1.00 atm? (A) 360 (B) 623 (C) 831 (D) 1440</li> <li>20Which property is the same for 1.0 gramples of H<sub>2</sub> and CH<sub>1</sub> in separate 1.0 L containers at 25 °C? (A) gree (B) Ar (C) S00 g/mol (D) 100. g/mol</li> <li>21Which statement is true about a substance that is subjected to a lower external pressure at a constant remperature? (C) average molecular velocity (D) average molecular kinetic energy</li> <li>22Which statement is true about a sublance that is subjected to a lower external pressure at a constant remperature? (C) average molecular velocity (D) average molecular kinetic energy</li> <li>23</li></ul>	12		ass of 560 cm <sup>3</sup> of (B) CO <sub>2</sub>		atm is 1.60 g. V (D) Cl <sub>2</sub>	Which gas could it be? (E) Xe				
vapor pressure of water as temperature changes? 15For which two gases are the rates of effusion 2:1? (A) H <sub>2</sub> and H <sub>2</sub> (B) H <sub>2</sub> and O <sub>2</sub> (C) Re and Kr (D) N <sub>2</sub> and Ar 16Which gas has a density of 0.71 g L <sup>-1</sup> at 0°C and 1 atm? (B) N <sub>2</sub> (C) CO (D) CH <sub>4</sub> 17What is the molar mass of a gas that has a density of 5.66 g L <sup>-1</sup> at 35°C and 745 mm Hg? (A) 127 (B) 141 (C) 143 (D) 146 18(A) N <sub>6</sub> (B) Ar (C) X <sub>6</sub> (D) Rn 19A sample of C <sub>2</sub> H <sub>6</sub> gas initially at 50 °C and 720 mmHg is heated to 100 °C in a container of constant volume. What is the molar mass of a gas that 0.9 grams of it occupy 4.48 liters at 273 K and 1.00 atm? (A) 200 gravel (B) 25.0 gravel (C) 580 gravel (D) 1440 20Which property is the same for 1.0 g samples of H <sub>2</sub> and CH <sub>4</sub> in separate 1.0 L containers at 25 °C? (B) number of molecules (C) average molecular velocity (D) average molecular kinetic energy 22Which statement is true about a substance that is subjected to a lower external pressure at a constant temperature? (A) A liquid will boil at a lower temperature. (B) A liquid will boil at a lower temperature. (C) A gas in an nonrigid container will change into a liquid. (D) A gas in an nonrigid container will change into a liquid. (D) A gas in an nonrigid container will change into a liquid. (D) A flag (B) 12.1 g (C) 24.0 g (D) 95.9 g 24Three balloons are filled with the same number of atoms of Hc, Ar, and Xe, respectively. Which statement is true udder the same conditions of gas. (B) Al balloons have the same roots of gas. (B) Al balloons have the same roots of temperature and pressure? (A) The balloons contain the same mass of a gas. (B) Al balloons have the same roots of temperature and pressure? (A) The balloons contain the same mass of gas. (B) Al balloons have the same roots of temperature and pressure? (A) The balloons contain the same mass of gas. (B) Al balloons have the same roots of gas. (B) Al balloons have the same rooto; (C) The densiti	13		as fast.	(B) 1/4 times as	s fast.					
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(A) Ne (B) $Ar$ (C) Xe (D) Rn 19A sample of C <sub>2</sub> H <sub>6</sub> gas initially at 50 °C and 720 mmHg is heated to 100 °C in a container of constant volume. What is the new pressure (in mmHg)? (A) 360 (B) 623 (C) 831 (D) 1440 20What is the molar mass of a gas if 10.0 grams of it occupy 4.48 liters at 273 K and 1.00 atm? (A) 2.00 g/mol (B) 25.0 g/mol (C) 50.0 g/mol (D) 100 g/mol 21Which property is the same for 1.0 g samples of H <sub>2</sub> and CH <sub>4</sub> in separate 1.0 L containers at 25 °C? (A) pressure (B) number of molecules (C) average molecular velocity (D) average molecular kinetic energy 22Which statement is true about a substance that is subjected to a lower external pressure at a constant temperature? (A) A liquid will exhibit a lower temperature. (B) A liquid will exhibit a lower temperature. (C) A gas in a nonrigid container will change into a liquid. (D) A gas in a nonrigid container will change into a liquid. (D) A gas in a nonrigid container will exhibit a smaller volume 23A flask contains a mixture of Ne(g) and Ar(g). There are 0.250 mol of Ne(g) which exerts a pressure of 205 mmHg. If the Ar(g) exerts a pressure of 492 mmHg, what mass of Ar(g) is in the flask? (A) 4.16 g (B) 12.1 g (C) 24.0 g (D) 95.9 g 24Three balloons are filled with the same number of atoms of He, Ar, and Xe, respectively. Which statement is true under the same conditions of temperature and pressure? (A) The balloons contain the same root meas of gas. (B) All balloons have the same root mean square velocity. 25Supercritical carbon dioxide exists at which point on the accompanying phase diagram to the right? (A) AB (Q) (B) (C) (C) (D) (D)	10	Which	nchla and offusion	onnovinotaly two	ion on fast on Vr	2				
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<ul> <li>24 Three balloons are filled with the same number of atoms of He, Ar, and Xe, respectively. Which statement is true under the same conditions of temperature and pressure?</li> <li>(A) The balloons contain the same mass of gas.</li> <li>(B) All balloons have the same volume.</li> <li>(C) The densities of the three gases are the same.</li> <li>(D) The average speed of the different types of atoms is the same.</li> <li>(E) All gases have the same root mean square velocity.</li> <li>25 Supercritical carbon dioxide exists at which point on the accompanying phase diagram to the right?</li> </ul>	pressure					ass of Ar(g) is in the flask?				
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