EXERCISE

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1. If absolute temperature of a gas is doubled and the pressure is reduced to, onehalf the volume of gas will,

a. remain unchanged

b. double

c. reduce to half

d. increase four times

2. One dm³ of Hydrogen at STP weighs approximately

a. 0.0789g

b. 0.0799g

c. 0.0987g

d_0.0899g

3. In a factory producing liquid air, one of the pipes carrying dry air at -80°C is blocked with a white solid. This white solid is,

a. Argon

b. Ice

c. Nitrogen

Carbon dioxide

The spreading of perfume or scent in air is due to

- Diffusion
- b. Effusion
- c. Attraction with air
- d. Low density

5. A gas has certain volume at 10°C. How much temperature should be raised to double its volume,

. 566K

b. 283K

d. 283°C

6. The rate of diffusion of hydrogen (H₂) compared with helium (He) is,

a. 0.5 times

b. 1.4 times

c. 2 times

d. 4 times

7. The non-ideal behaviour results chiefly from

- a. Intermolecular attraction and infinite volume
- b. Elastic collisions and finite volume
- Intermolecular attractions and finite volume

d. Intermolecular attraction only

The molar volume of helium (He) is 44.8dm³ at,

- a. 100 °C and 1atm
- b. b. 25 °C and 0.25atm with the stead with 150 for the
- 0°C and 0.5atm
- a. 40°C and o.Satm

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9. Which statement about the behavio	our of the particles in a gas is not corre	
a. They are able to move at give		
b. The forces of attraction between	veen the particles are negligible	
c. There is large space among	the particles	
They are arranged in regular	patterns	
10. At the same temperature and pres	sure which of the following gases be	
greatest density,	2 30362 193	
a. CO ₂	b. SO ₂	
c. Cl ₂	d. H₂O	
11. Weight of one dm³ of O₂ at STP is		
1.4384 g	b. 1.5394 g	
c. 1.6384 g	d. 1.3384 g	
12. The value of ideal gas constant in d	m³ torr k·1 mol·1	
a. 0.0821		
c 62.364	b. 1.98722	
13. 760 torr is equal to,	d. 8.3143	
a. 760 Pascal		
2. 101325 Pascal	b. 76 Pascal	
14. At 50°C a gas has 1 atm man	d. 1.01325 Pascal	
14. At 50°C a gas has 1atm pressure, ar	nd 20dm ³ volume, its volume at STP w	
: 16.94dm³		
c. 3.66dm ³	b. 10.92dn 151//10	
15. Which of the following	d. 42.2 dm 151/419	
15. Which of the following gases will ha	ave the fastest effusion rater	
b. NH ₃	c. CO ₂ d. O ₂	
Short Questions	PAYRE 22 -	
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