

(MCC04-ETEA-01)

- When an electric current is passes through neon gas, it produces:
  - A) Plasma
  - B) Light
  - C) Both plasma and light
  - D) plasma, light, sound

(MCC04-ETEA-02)

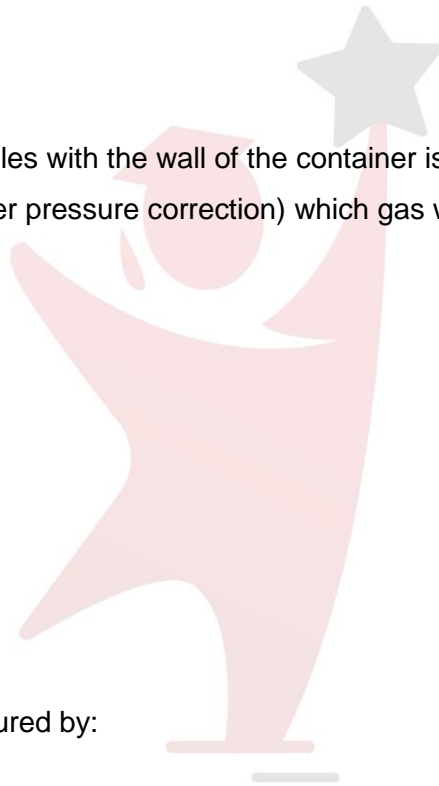
- The collision of the gas molecules with the wall of the container is responsible for gaseous pressure. According to van der Waals (after pressure correction) which gas will exert more pressure if temperature is kept constant:
  - A) A Real gas
  - B) Ideal gas
  - C) Non ideal gas
  - D) All exert same pressure

(MCC04-ETEA-03)

- Atmospheric pressure is measured by:
  - A) Hygrometer
  - B) Barometer
  - C) Copyrometer
  - D) Spherometer

(MCC04-ETEA-04)

- Regarding liquefaction of gases, the highest temperature at a fixed pressure is of:
  - A)  $\text{SO}_3$
  - B)  $\text{NH}_3$
  - C)  $\text{Cl}_2$
  - D)  $\text{CO}_2$



PARHO AUR  
**Chaaajao**

(MCC04-ETEA-05)

- The equation used to describe the behavior of ideal gases under standard conditions:
  - A)  $PV=nRT$
  - B)  $PM=dRT$
  - C)  $PVM=mRT$
  - D) All of the above

(MCC04-ETEA-06)

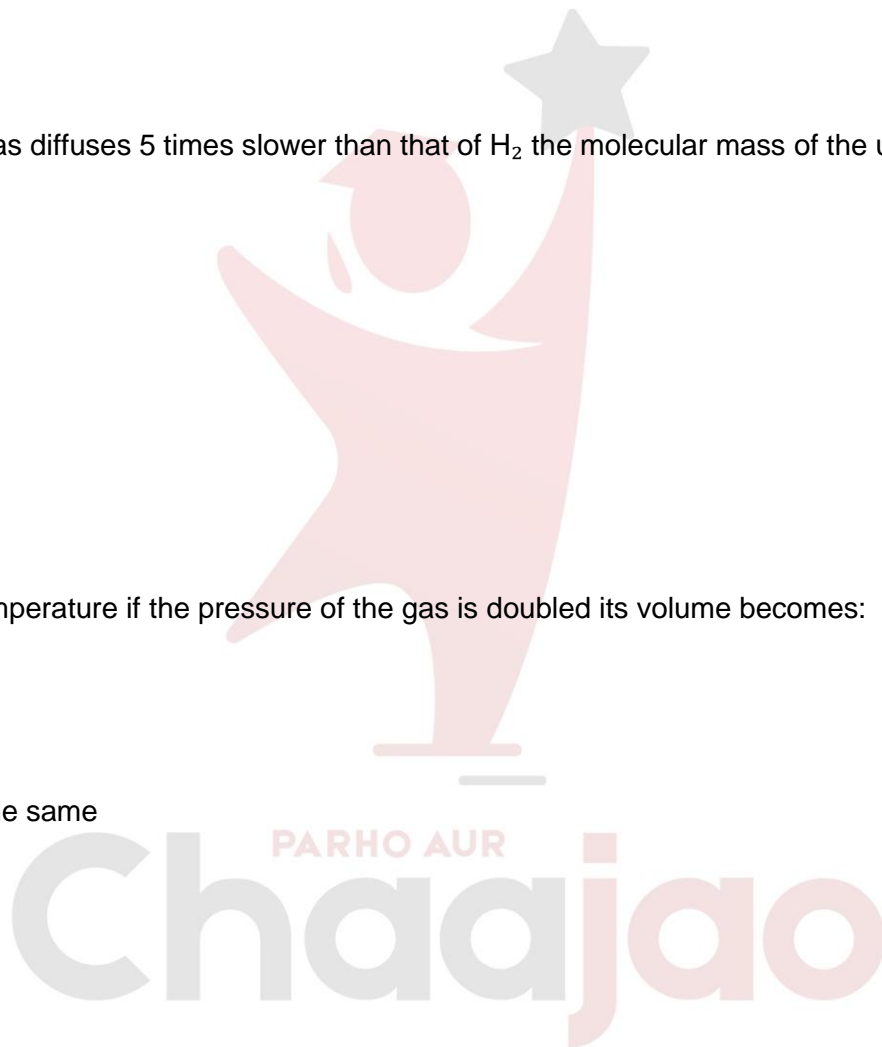
- An unknown gas diffuses 5 times slower than that of  $H_2$  the molecular mass of the unknown gas is:
  - A) 50
  - B) 10
  - C) 15
  - D) 25

(MCC04-ETEA-07)

- At constant temperature if the pressure of the gas is doubled its volume becomes:
  - A) One half
  - B) Double
  - C) Four times
  - D) Remains the same

(MCC04-ETEA-08)

- According to Gay-Lusac's variation of the volume of a sample of gas, at constant pressure a straight line was obtained where slope was found to be equal to:
  - A)  $\frac{V_1}{273}$
  - B)  $\frac{V_0}{273}$
  - C)  $\frac{P_1}{273}$
  - D)  $\frac{P_0}{273}$



(MCC04-ETEA-09)

- If absolute temperature of the gas is doubled and pressure is increased 4 times, then the volume becomes:  
A) Half  
B) Double  
C) 4 times  
D) Unchanged

(MCC04-ETEA-10)

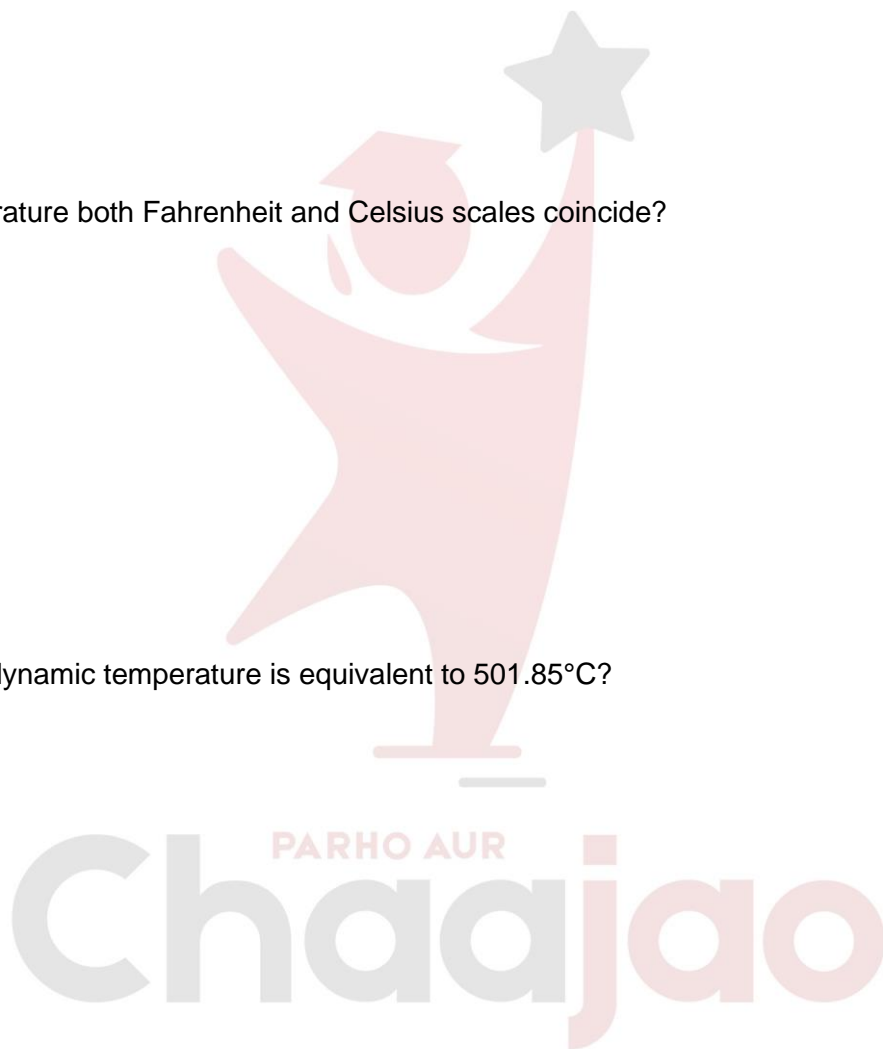
- At what temperature both Fahrenheit and Celsius scales coincide?  
A)  $40^{\circ}\text{C}$   
B)  $-30^{\circ}\text{C}$   
C)  $32^{\circ}\text{C}$   
D)  $-40^{\circ}\text{C}$

(MCC04-ETEA-11)

- Which thermodynamic temperature is equivalent to  $501.85^{\circ}\text{C}$ ?  
A) 775.00 K  
B) 774.85 K  
C) 228.85 K  
D) 228.70 K

(MCC04-ETEA-12)

- Which scientist made the following proposal equal volumes of gases under the same conditions of temperature and pressure contain the same number of particles:  
A) Gay Lussac  
B) Curie  
C) Dalton  
D) None of the above



(MCC04-ETEA-13)

- At constant temperature, if the volume of the given mass of a gas is doubled, then the density of the gas becomes:  
A) Double  
B) One half  
C) One quarter  
D) Four times

(MCC04-ETEA-14)

- In a closed room of  $1000\text{m}^3$ , a perfume bottle is opened up. The room develops smell. This is due to which property of gases?  
A) Diffusion  
B) Viscosity  
C) Density  
D) None of the above

(MCC04-ETEA-15)

- A bottle of dry  $\text{NH}_3$ , and a bottle of dry  $\text{HCl}$  connected through a long tube are opened simultaneously at both ends. The white  $\text{NH}_4\text{Cl}$  ring will be:  
A) At the center of the tube  
B) Near the  $\text{NH}_3$  bottle  
C) Near the  $\text{HCl}$  bottle  
D) Throughout the Length of tube

Answer key	
1	C
2	D
3	B
4	A
5	D
6	A
7	A
8	B
9	A
10	D
11	A
12	D
13	B
14	A
15	B

Chaaajao