

CHEMISTRY-11	Chapter#03 - First Half (3.1 to 3.6) Test-1		
	Name:	Class:	ID:
Date: / /	Marks Total: 25	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 09

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- Pressure remaining constant at which temperature the volume of a gas will become twice of what it is at 0°C:
 (a) 546°C (b) 200°C (c) 546 K (d) 273 K
- The order of the rate of diffusion of gasses NH₃, SO₂, Cl₂, and CO₂ is:
 (a) NH₃ > SO₂ > Cl₂ > CO₂ (b) NH₃ > CO₂ > SO₂ > Cl₂
 (c) Cl₂ > SO₂ > CO₂ > NH₃ (d) NH₃ > CO₂ > Cl₂ > SO₂
- Mass of 22.4 dm³ of N₂ at STP is:
 (a) 28 g (b) 14 g (c) 1.4 g (d) 2.8 g
- Escape out of gas molecules one by one through tiny hole is:
 (a) Diffusion (b) Effusion (c) Osmosis (d) All of these
- The pressure exerted by 760 mm long mercury column on an area of 1 cm² is equal to:
 (a) 1 atm (b) 760 torr (c) 101325 Pa (d) All
- Absolute zero has been derived from:
 (a) Boyle's law (b) Charles' law (c) Avogadro's law (d) Graham's law
- If the temperature and pressure of a gas are doubled, the volume will:
 (a) Become double (b) Become four times
 (c) Remain same (d) Become half
- The partial pressure of O₂ inside the lungs is:
 (a) 760 torr (b) 159 torr (c) 116 torr (d) 117 torr
- CH₄ diffuses _____ rapidly as compared to SO₂:
 (a) 2 times (b) 4 times (c) 3 times (d) 8 times

Maximum Marks: 16

(SUBJECTIVE TYPE)

Time Allowed: 30 Min.

SECTION-I

- Q.2: Give brief answers to the following questions:** (12)
- Why are liquids less common than other forms of matter?
 - The graph between P and PV is a straight line. Explain why?
 - Describe different scales of thermometry.
 - State Avogadro's law.
 - Deep sea divers or scuba divers do not use normal air in breathing, why?
 - Lighter gases diffuse more rapidly than heavier gases. Give reason.

SECTION-II

NOTE: Attempt All Questions:

(04)

- Q.3: What is Graham's law of diffusion? Give its experimental verification.**