

Based on Unit 5 State of Matter

M.M. 30

Time: 90 minutes

1. A substance which can flow will be
 - a. Liquid
 - b. gas
 - c. Solid
 - d. a and b both.

1
2. $V \propto n$ state which law of gas
 - a. Gay-Lusac
 - b. Avagadro
 - c. Boyels
 - d. Charles

1
3. State Charles law and give explanation for that.

2
4. Give 1 atmospheric pressure in Pascal and mm.

2
5. State Boyel's law and deduce expression also.

2
6. Calculate the temperature at which 28gm N_2 occupise a volume of 10 liters at 24.6 atm.

2
7. Calculate the resulting temperature change if a 52 dm^3 sample of a gas is at fix pressure expanded to 104 dm^3 .

2
8. At 25°C and 760mm of Hg pressure a gas occupises 600 ml volume. What will be the pressure at a height where temperature is 10°C and volume of gas is 640 ml?

2
9. Distinguish among Solid, Liquid and Gas.

4
10. What do you mean by intermolecular forces and define Dipole-Dipole and London forces.4

4
11. Deduce the Ideal Gas Equation and write the value of R.

4
12. 34.05 ml of phosphorus vapour weighs 0.625 gm at 546°C and 0.1 bar pressure. Find the molar mass of phosphorus.

4

For detailed study of physics for class X and XII and preparation of Medical and Engineering Entrances Read

**Hand Book of Fundamental of Physics, By Ashutosh Pandey &
Hand Book of Fundamental of Mathematics, By Ashutosh Pandey**

