

# INNOVATIVE - CLASSES

CHEMISTRY - BY - KARTIKAY MODANWAL

MAX-MARKS (25) MAX-TIME (45MIN)

## CHEMISTRY PAPER – CLASS 9TH

### SECTION (A) (1) MARKS

- Q1. Name a diatomic and triatomic gas.
- Q2. Calculate the percentage of oxygen in  $H_2SO_4$ .
- Q3. Name the scientist and his experiment to prove that nucleus of an atom is positively charged.

### SECTION (B) (2) MARKS

- Q4. Calculate the formula mass of  $CuSO_4 \cdot 5H_2O$ .
- Q5. Calculate the number of molecules in 8g of  $O_2$ .
- Q6. Write the number of protons and neutrons of an element whose atomic mass is 27 and atomic number is 13. Write its valency and identify the element.

### SECTION (C) (3) MARKS

- Q7. Calculate the number of aluminium ions present in 0.051g of aluminium oxide.
- Q8. Using criss cross method, write the chemical formula of copper chloride, calcium sulphate, sodium phosphate.

### SECTION (D) MARKS

- Q9. Describe in detail the Rutherford's alpha scattering experiment. What were the main conclusions drawn from this experiment.
- Q10. (a) Calculate the number of moles in 112g of iron.
- (b) Calculate the mass of 0.5 mole of sugar ( $C_{12}H_{22}O_{11}$ ).
- (c) Calculate the number of atoms in 8g of oxygen  $O_2$  molecules.

**BEST OF LUCK ! ☺**