

Atoms and molecules



Fill in the blanks

- 2. Formula of quick lime is
- 3. Formula of baking soda is
- 4. Latin name of sodium is
- 5. Law of conservation of mass is given by

One marks questions

- 1. Define atomicity? Write two diatomic molecules.
- 2. What is chemical formula?
- 3. Define one atomic mass unit?
- 4. What is formula unit? Give one example?
- 5. Define valency with example?

Three marks questions

- 1. Derive the formula of potassium phosphate?
- 2. Calculate the formula unit of Na₂CO₃ , FeSO₄ . 7H₂O
- 3. Calculate the mass of 0.5 ml of oxygen atom.
- 4. What is ion? Differentiate between anion and cation?
- 5. Convert 20g of water into moles?

Five marks questions

- 1. Write the chemical formula of
- (i) Ammonium carbonate
- (ii) Magnesium chloride
- (iii) Calcium hydroxide
- Calculate the number of molecules of sulphur (S8) in 16 g of solid sulphur? (atomic mass of S= 32)
- 3. Explain the law of constant proportion with one example?
- 4. Calculate the formula unit mass of (NH₄)₂CO₃.
- 5. Compute the number of sodium ions present in 5.85 g of sodium chloride.

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