

Yakeen NEET 2.0 2026

Physical Chemistry By Amit Mahajan Sir

Some Basic Concept of Chemistry

DPP: 4

- Q1** Equal masses of oxygen, hydrogen and methane are taken in identical conditions. What is the ratio of the volumes of the gases under identical conditions?
 (A) 16 : 1 : 8 (B) 1 : 16 : 2
 (C) 1 : 16 : 8 (D) 2 : 16 : 1
- Q2** 11.2 L of O_3 (g) contains how many numbers of molecules?
 (A) N_A molecules
 (B) $N_A/2$ molecules
 (C) $2 N_A$ molecules
 (D) $3 N_A$ molecules
- Q3** The number of molecules in 89.6 liters of a gas at NTP are
 (A) 6.02×10^{23}
 (B) $2 \times 6.02 \times 10^{23}$
 (C) $3 \times 6.02 \times 10^{23}$
 (D) $4 \times 6.02 \times 10^{23}$
- Q4** The number of moles of sodium oxide in 620 g of it is
 (A) 1 mol
 (B) 10 moles
 (C) 18 moles
 (D) 100 moles
- Q5** The number of mol of N-atom in 18.066×10^{23} nitrogen atoms is
 (A) 1 mol
 (B) 2 mol
 (C) 3 mol
 (D) 4 mol
- Q6** One mole electron means:
 (A) N_A electrons
 (B) 6.023×10^{23} electrons
 (C) 0.55mg electrons
 (D) All of these
- Q7** The number of moles of sodium oxide in 620 g of it is
 (A) 1 mol
 (B) 10 moles
 (C) 18 moles
 (D) 100 moles
- Q8** 1 mol of CH_4 contains
 (A) 6.02×10^{23} atoms of H
 (B) 4 g atom of Hydrogen
 (C) 1.81×10^{23} molecules of CH_4
 (D) 3.0 g of carbon
- Q9** If we consider that $1/6$, in place of $1/12$, mass of carbon atom is taken to be the relative atomic mass unit, the mass of one mole of the substance will :-
 (A) be a function of the molecular mass of the substance
 (B) remain unchanged
 (C) increase two fold
 (D) decrease twice
- Q10** If Avogadro number N_A , is changed from $6.022 \times 10^{23} \text{ mol}^{-1}$ to $6.022 \times 10^{20} \text{ mol}^{-1}$, this would change:
 (A) The ratio of elements to each other in a compound
 (B) The definition of mass in units of grams
 (C) The mass of one mole of carbon
 (D) The ratio of chemical species to each other in a balanced equation
- Q11** Statement-I: Weight of 1 molecule of $O_2 = 32u$
 Statement-II: 1 g molecule = 6.023×10^{23} molecules.
 (A) Both Statement-I and Statement-II are correct.
 (B) Both Statement-I and Statement-II are incorrect.
 (C) Statement-I is correct and Statement-II is incorrect.
 (D) Statement-I is incorrect and Statement-II is correct.



Answer Key

Q1 (B)
Q2 (B)
Q3 (D)
Q4 (B)
Q5 (C)
Q6 (D)

Q7 (B)
Q8 (B)
Q9 (D)
Q10 (C)
Q11 (A)



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