MCQ's 9th Atoms and Molecules, Moles, Dalton's atomic theory

1. Which of the following has the smallest mass?

(A) 4 g of He

(B) 6.023×10^{23} atoms of He

(C) 1 atom of He

(D) 1 mole atoms of He

The number of carbon atoms in 1 g of CaCO₃ is -

(A) 6.023×10^{23} (B) 6.023×10^{21}

(C) 3.0125×10^{22}

(D) 1.204×10^{23}

 6.023×10^{20} atoms of silver (Atomic mass = 108 u) weight -

(A) 108×10^3 g

(B) 108 g

(C) 0.108 g

(D) 10.8 g

Which of the following has largest number of molecules?

(A) 8 g of CH₄

(B) 4.4 g of CO₂

(C) 34.2 g of $C_{12}H_{22}O_{11}$

(D) $2 g of H_2$

5. Which of the following contains one mole molecules of the substance?

(A) 16 g Oxygen

(B) 7 g Nitrogen

(C) 2 g Hydrogen

(D) 36 g Water.

6. The number of molecules in 16.0 g of oxygen is -

(A) 6.02×10^{23}

(B) 6.02×10^{-23}

(C) 3.01×10^{-23}

(D) 3.01×10^{23}

The volume of one mole of a gas at normal temperature and pressure is -7.

(A) 11.2 litres

(B) 22.4 litres

(C) 100 litres

(D) None of these

8. The number of gram atoms in 8 g of he are -

(A) 2

(B) 1.204×10^{24}

(C) 3.1×10^{23}

(D) None of these

The percentage of hydrogen in H₂O is -9.

(A) 8.88

(B) 11.12

(C) 20.60

(D) 80.0

The charge in coulombs of 1 gram ion of N^3 is (the charge on an electron is 1.602 × 10^{-19} C) -10.

(A) 2.894×10^{5} C

(B) 3.894×10^5 C (C) 2.894×10^6 C

(D) None of these

Solution

Qus.	1	2	3	4	5	6	7	8	9	10
Ans.	С	В	С	D	С	D	В	Α	В	Α