

# ARJUNA (NEET)

## Some Basic Concepts of Chemistry

**DPP-3**

- Atomic weight of chlorine is 35.5. It has two isotopes of atomic weight 35 and 37. What is the percentage of the heavier isotope in the sample?  
(A) 5 (B) 10  
(C) 25 (D) 20
- The number of moles of nitrogen atom in 56 g nitrogen gas is  
(A) 2 mol (B) 4 mol  
(C) 8 mol (D) 10 mol
- The number of mole of N-atom in  $18.066 \times 10^{23}$  nitrogen atoms is  
(A) 1 mol (B) 2 mol  
(C) 3 mol (D) 4 mol
- What weight in grams is represented by 1.5 moles of Sulphur dioxide?  
(A) 60 g (B) 74 g  
(C) 96 g (D) 91 g
- The number of atoms in 20 g of  $\text{SO}_3$  is approximately  
(A)  $1 \times 10^{23}$  (B)  $1.5 \times 10^{23}$   
(C)  $2 \times 10^{23}$  (D)  $6 \times 10^{23}$
- The number of particles present in 1 mol of nitrogen atom are  
(A)  $6.022 \times 10^{25}$  (B)  $6.022 \times 10^{24}$   
(C)  $6.022 \times 10^{23}$  (D)  $6.022 \times 10^{22}$
- B has two isotopes  $^{10}\text{B}$  (19%) and  $^{11}\text{B}$  (81%). The atomic mass of B is  
(A) 10.81 (B)  $10^5$   
(C) 11 (D) 10.5
- Mass of 1 amu in g  
(A)  $1.66 \times 10^{24}$  (B)  $1.66 \times 10^{-24}$   
(C) 1.008 (D)  $9.1 \times 10^{-28}$
- One 'u' stands for the mass of  
(A) An atom of carbon-12  
(B)  $1/12^{\text{th}}$  of carbon-12  
(C)  $1/12^{\text{th}}$  of hydrogen atom  
(D) One atom of any of the elements
- The mass of one molecule of water is approximately  
(A)  $3 \times 10^{-23}$  g (B) 18 g  
(C)  $1.5 \times 10^{-23}$  g (D)  $4.5 \times 10^{-23}$  g

### ANSWERS KEY

1. (C)
2. (B)
3. (C)
4. (C)
5. (D)
6. (C)
7. (A)
8. (B)
9. (B)
10. (A)



**\*Note\* - If you have any query/issue**

Mail us at [support@physicswallah.org](mailto:support@physicswallah.org)



[support@physicswallah.org](mailto:support@physicswallah.org)