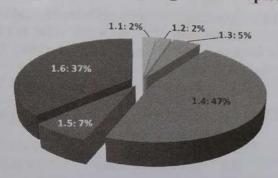
Some Basic Concepts of Chemistry

- Units of measurement 1.1
- Uncertainty in measurement
- Atomic and molecular masses
- Mole concept and molar mass 1.4
- Percentage composition, empirical and molecular formulae 1.5
- Chemical reactions, stoichiometry and calculations based on stoichiometry 1.6

33 Years NEET/AIPMT Analysis (Percentage-wise weightage of sub-topics)



■ 1.1 ■ 1.2 ■ 1.3 ■ 1.4 ■ 1.5 ■ 1.6

8 Years NEET Analysis (2013 Onwards) (Percentage-wise weightage of sub-topics)



[Note: Till date no questions have been asked to be subtopics: General Attroduction – Importance and scope of chemistry, Laws of chemical combinetion, Datton's atomic theory concept of elements, atoms and molecules]

- The dimensions of pressure are the same as [1995]
 - force per unit volume (A)
 - energy per unit volume (B)
 - force (C)
 - (D) energy

An element, X has the following isotopic

composition: 200 X : 90 % 199 X : 8.0 % 202 X : 2.0 %

The weighted average atomic mass of the naturally-occurring element X is closest to [2007]

- 201 amu
- (B) 202 amu
- (C) 199 amu
- 200 amu (D)

Uncertainty in measurement

- Given the numbers: 161 cm, 0.161 cm, 0.0161 cm. The number of significant figures [1998] for the three numbers is
 - 3, 3 and 4 respectively (A)
 - 3, 4 and 4 respectively (B)
 - 3, 4 and 5 respectively
 - 3, 3 and 3 respectively (D)

1.3 Atomic and molecular masses

- Boron has two stable isotopes, 10B (19%) and VIVO Calculate average at.wt. of boron in the periodic table.
- Jun 15, 2022; 05:58
- (B) 10.2 (D) 10.0

- Mole concept and molar mass 1.4
 - 1 cc N₂O at NTP contains [1988]
 - $\frac{1.8}{224} \times 10^{22} \text{ atoms}$
 - $\frac{6.02}{22400} \times 10^{23}$ molecules
 - $\frac{1.32}{224} \times 10^{23}$ electrons
 - (D) all the above
 - The number of oxygen atoms in 4.4 g of CO₂ is approximately
 - (A) 1.2×10^{23}
 - 6×10^{22} (B)
 - (C) 6×10^{23}
 - (D) 12×10^{23}