

## CHAPTER-4 | Structure of the Atom

QUIZ  
PART-03

1. Atomic number is the number of:

- A. Neutrons
- B. Protons
- C. Nucleons
- D. Shells (B)

*Explanation:* Atomic number is the number of protons in the nucleus.

2. Atomic number is denoted by:

- A. A
- B. Z (B)
- C. N
- D. X

*Explanation:* Atomic number is represented by Z.

3. Mass number is:

- A. Protons only
- B. Neutrons only
- C. Protons + neutrons (C)
- D. Protons + electrons

*Explanation:* Mass number is the sum of protons and neutrons.

4. Mass number is denoted by:

- A. Z
- B. A (B)
- C. M
- D. P

*Explanation:* Mass number is represented by A.

5. Number of neutrons =

- A.  $A + Z$
- B.  $Z - A$
- C.  $A - Z$  (C)
- D.  $A \times Z$

*Explanation:* Neutrons = mass number - atomic number.

6. Isotopes have same:

- A. Mass number
- B. Atomic number (B)
- C. Neutrons
- D. Electrons always different

*Explanation:* Isotopes of an element have the same atomic number but different mass numbers.

7. Chlorine isotopes are:

- A. 35 and 36
- B. 35 and 37 (B)
- C. 36 and 37
- D. 37 and 38

*Explanation:* Chlorine commonly has isotopes with mass numbers 35 and 37.

8. Isotope used in cancer treatment is of:

- A. Uranium
- B. Iodine
- C. Cobalt (C)
- D. Carbon

*Explanation:* An isotope of cobalt is used in cancer treatment.

9. Isobars have same:

- A. Atomic number
- B. Mass number (B)
- C. Neutrons
- D. Electrons only

*Explanation:* Isobars are atoms of different elements with the same mass number.

10. Average atomic mass of chlorine is:

- A. 35 u
- B. 35.5 u (B)
- C. 36 u
- D. 37 u

*Explanation:* Chlorine's relative atomic mass is 35.5 u due to isotopic abundance.