

## CHAPTER-4 | Structure of the Atom

QUIZ  
PART-04

1. Canal rays are:

- A. Negatively charged
- B. Neutral rays
- C. Positively charged radiations
- D. Light rays (C)

**Explanation:** Canal rays are positively charged radiations.

2. In Thomson's model, atom is neutral because:

- A. It has no electrons
- B. Positive and negative charges are equal
- C. Nucleus has no charge
- D. Only protons are present (B)

**Explanation:** Equal positive and negative charges make the atom neutral.

3. According to Rutherford, nucleus contains:

- A. Electrons
- B. Neutrons only
- C. Protons
- D. Shells (C)

**Explanation:** Rutherford's model says positively charged protons are in the nucleus.

4. In Bohr's model, first shell is:

- A. L
- B. M
- C. N
- D. K (D)

**Explanation:** K shell is the first shell.

5. In Bohr's model, third shell is:

- A. K
- B. L
- C. M
- D. N (C)

**Explanation:** The third shell is M shell.

6. Three sub-atomic particles are:

- A. Proton, atom, shell
- B. Proton, electron, neutron
- C. Electron, nucleus, orbit
- D. Proton, molecule, neutron (B)

**Explanation:** Atom contains protons, electrons, and neutrons.

7. Helium has atomic mass 4 u and 2 protons.

Neutrons =

- A. 1
- B. 2
- C. 3
- D. 4 (B)

**Explanation:** Neutrons =  $4 - 2 = 2$ .

8. Electronic configuration of carbon is:

- A. 2, 6
- B. 2, 4
- C. 2, 8
- D. 4, 2 (B)

**Explanation:** Carbon has 6 electrons arranged as 2, 4.

9. Electronic configuration of sodium is:

- A. 2, 8, 1
- B. 2, 7, 2
- C. 2, 8, 2
- D. 8, 2, 1 (A)

**Explanation:** Sodium has 11 electrons arranged as 2, 8, 1.

10. If K and L shells are full, total electrons are:

- A. 8
- B. 10
- C. 12
- D. 18 (B)

**Explanation:** K holds 2 and L holds 8, so total = 10.