

Science

(www.tiwariacademy.com)

(Chapter – 4) (Structure Of The Atom)

(Class – IX)

Page 52

Question 1:

If number of electrons in an atom is 8 and number of protons is also 8, then

- (i) what is the atomic number of the atom and
- (ii) what is the charge on the atom?

Answer 1:

- (i) The atomic number is equal to the number of protons. Therefore, the atomic number of the atom is 8.
- (ii) Since the number of both electrons and protons is equal, therefore, the charge on the atom is 0.

Question 2:

With the help of Table 4.1, find out the mass number of oxygen and sulphur atom.

Answer 2:

$$\begin{aligned}\text{Mass number of oxygen} &= \text{Number of protons} + \text{Number of neutrons} \\ &= 8 + 8 \\ &= 16\end{aligned}$$

$$\begin{aligned}\text{Mass number of sulphur} &= \text{Number of protons} + \text{Number of neutrons} \\ &= 16 + 16 \\ &= 32\end{aligned}$$