

~~THE~~ TENDER HEART HIGH SCHOOL, SEC-33B, CHD.

CLASS - VIII

SUBJECT - CHEMISTRY

CHAPTER - 4

TEACHER - ANAMIKA

Q:- Atom A is represented as $^{209}_{82}\text{A}$ atom B as $^{209}_{83}\text{B}$ & atom C as $^{211}_{82}\text{C}$

- How many electrons, protons & neutron do A, B and C have?
- Which two atoms have different number of nucleons?
- Name the term which can be used for A and C atom.
- Define the term mentioned in part (c) above.

Ans:- a)

Element	Electron	proton	Neutron
A	82	82	127
B	83	83	126
C	82	82	129

b) A & C, B & C

c) Isobars

d) They are atoms of different element with the same mass number, but different atomic numbers.

Q:- An atom of an element Y may be written as 9_4Y

- What does the figure 9 indicates.
- What does figure 4 indicates.
- What is the number of proton in atom Y?
- What is the number of neutron in Y?
- What is the number of electrons in atom Y?
- How many electrons are there in outermost shell of atom of element Y?
- Write the symbol of ion formed by an atom of element Y?

Ans:- a) Mass number.

b) atomic number

$$\text{c) } \text{Mass NO} = \text{No. of proton} + \text{No. of } \overset{\text{neutron}}{\text{electron}}$$

$$9 = 4 + x$$

$$x = 9 - 4$$

$$x = 5$$

No. of proton = 4

d) 5

e) 4

f) there are 2 electrons K L
2 2

g) Y^{2+}