

TENDER HEART HIGH SCHOOL, SEC-33B, CHD
 CLASS - VII SUBJECT - CHEMISTRY
 CHAP - 4 TEACHER - ANAMIKA

21.10.24

Q1 What is variable valency? Give two examples of element showing variable valency?

Ans:- Certain elements exhibit more than one valency, that means they show variable valency.

If an element exhibit two different positive valencies, then suffix 'ous' is used for lower valency. & Suffix 'ic' is used for higher valency.

	Metal	Radical	Valency
1.	Iron	Ferrous (Iron (II))	2
		Ferric (Iron (III))	3
2.	Copper	Cuprous (Cu (I))	1
		Cupric (Cu (II))	2

Q:- An element belongs to group VA. What would be its valency? Name two such elements

Ans:- Group VA element =

Nitrogen (N)

Phosphorus (P)

Element is N, P Valency is -3

Q: An element belong to group II. What would be its valancy? Write the formula of molecule of compounds it will form with element in IA, VIA & VIIA group.

Ans:- Element belong to group II = Mg Valancy = 2

Formula with group IA

Element of group IA = N Valancy = 3

Element	Mg	N
Valancy	2	3

Interchange of
valancy

Group VIA of element = O Valancy 2

Element	Mg	O
valancy	2	2

Interchange of
valancy
MgO

Group VIIA element F Valancy 1

Element	Mg	F
Valancy	2	1

Interchange of Valency

MgF_2

Q:- Name one ion for each of the valencies
+1, +2 & +3

Ans:-	Element	Valency
	Na	+1
	Mg	+2
	Al	+3

Q Name one ion for each of the valencies
-1, -2 & -3.

Ans:-	Element	Valency
	N	-3
	O	-2
	F	-1