

## COORDINATION COMPOUND

### # Introduction:-



#### Double salt

- Completely ionise in aq. medium.
- Lose their identity in aq. soln.
- Each ion gives positive test.
- Individual ions do not lose their own identity.

#### Examples

- ① Carnallite  $[KCl \cdot MgCl_2 \cdot 6H_2O]$
- ② Mohar's salt  $[FeSO_4(NH_4)_2SO_4 \cdot 6H_2O]$
- ③ Potash alum  $[K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O]$

#### Complex salt

- Do not ionise completely.
- Retain their identity in aq. medium.
- Each ion do not give positive test.
- Ions lose their own identity.

Examples:-  $K_4[Fe(CN)_6]$ ,  $[Pt(NH_3)_2Cl_2]$  etc.

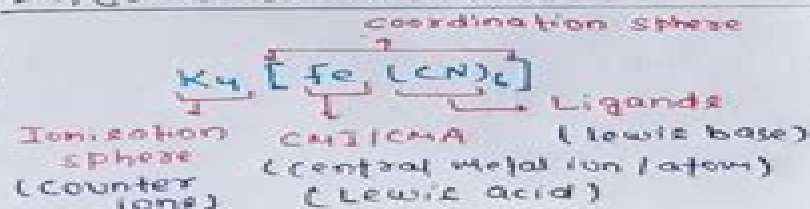
$\hookrightarrow$  Complex salt  $\rightarrow$   $\sigma$  coordinate bonds present b/w ligand ( $e^-$  pair donors) & metal ion ( $e^-$  pair acceptor).

Q  $\rightarrow$  Why d-block element (Metal) form more no. of complexes?

Reason:- ① Availability of vacant orbital

② Small size & High  $\phi$  nature

$\phi \uparrow$ , Covalent nature of Bond  $\uparrow$



## # Definitions

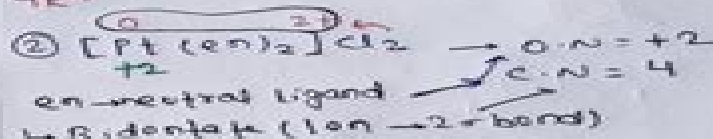
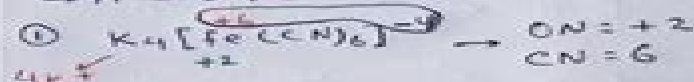
① Coordination number:- No. of ligand donor atoms to which metal is directly bonded. or

$\hookrightarrow$  coordination no. is equal to  $\sigma$ -bonds present b/w ligand & CMI.

According to NCERT,  $\pi$ -bond b/w CMI & ligands will not be included in CN.

② oxidation no. of central atom:-

$\hookrightarrow$  Andaz & Bahar ke charge ka hi saaf



③ Homoleptic complexes:- CMI is bound to only one kind of ligands.



④ Heteroleptic complexes:- CMI is bound to more than one kind of ligands.  
Ex  $\rightarrow [Pt(NH_3)_2Cl_2]$

⑤ Coordination polyhedron:- Dabbe ki geometry (decided by CN of complex)

C.N

2  $\rightarrow$  Linear

3  $\rightarrow$  T planar

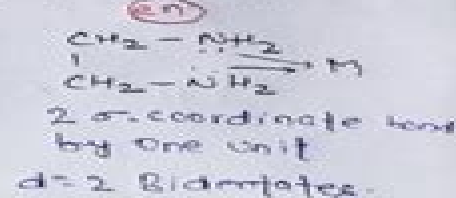
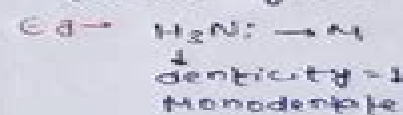
4  $\rightarrow$  Sq planar

\* 4  $\rightarrow$  Tetrahedral

5  $\rightarrow$  T.B.P

\* 6  $\rightarrow$  S.B.P or octahedral

# Denticity:- no. of  $\sigma$ -coordinate bond formed by one unit of ligand.



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**OAR Quarterly Index of Current Research Results** United States. Air Force. Office of Aerospace Research,1967

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