(1) Co-ordination compounds - Isomerism [illegible]

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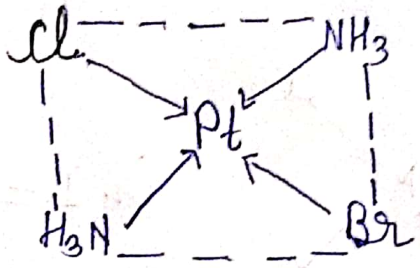
Akhilesh kumar singh

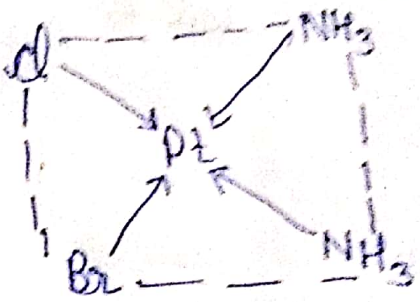
Type - II Ma_2bc

M → CMA

a, b, c - monodentate ligand

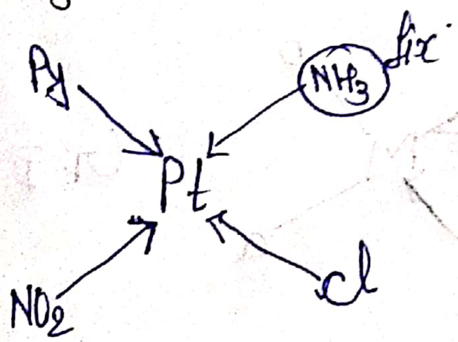


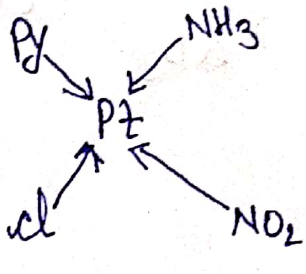
trans

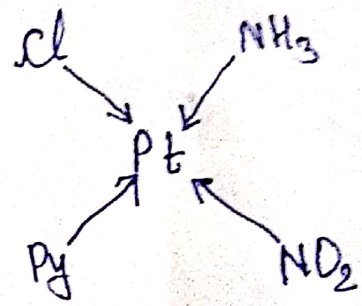


cis

Type - III Mabcd G.I = 3





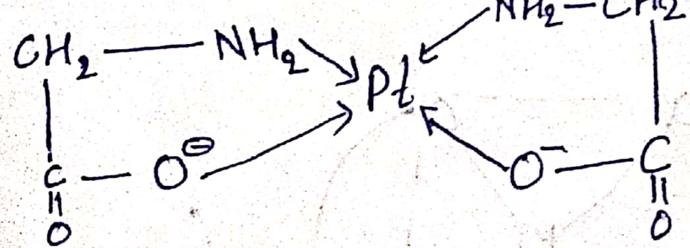


Type - IV $[M(ab)_2]$

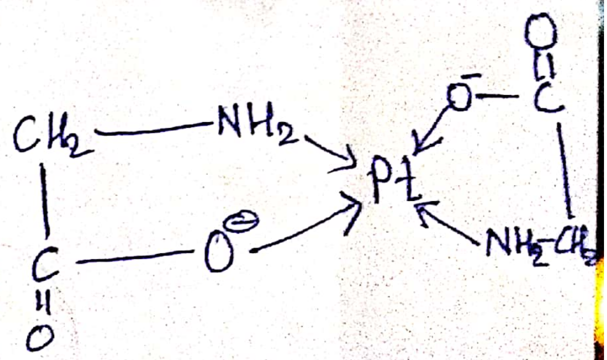
└ unsymm. bidentate

G. I. = 2

$Pt(gly)_2$



cis



trans

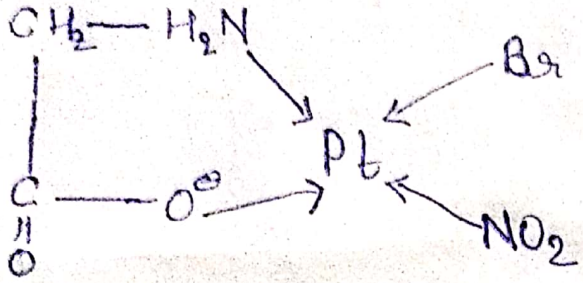
Type V $[M(ab)cd]$

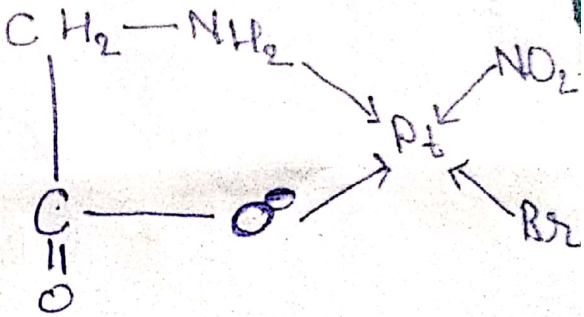
↓ unsy bi ↓ mono

G. I.

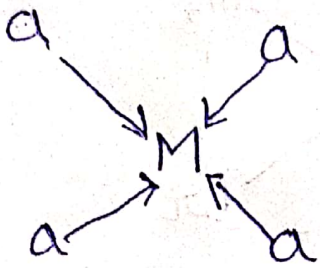
Scanned with CamScanner

(i)





Type VI Ma_4

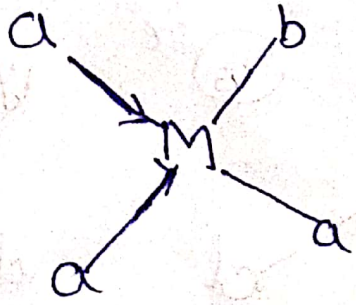


Cr. I. = 0

Type VII Ma_3b

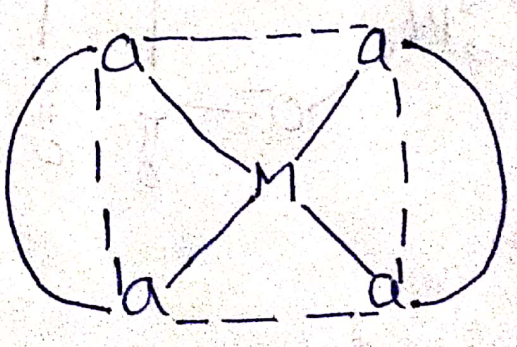
or

Mab_3



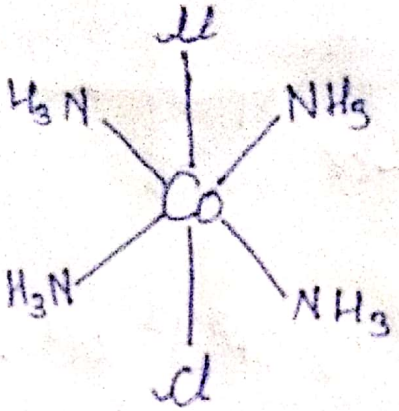
Cr. I = 0

Type VIII $M(aa)_2$ $Pt(en)_2$

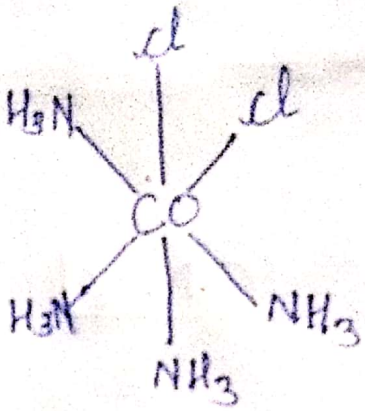


Cr. I = 0

③ Ma_4b_2



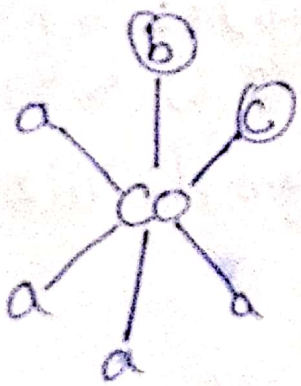
trans

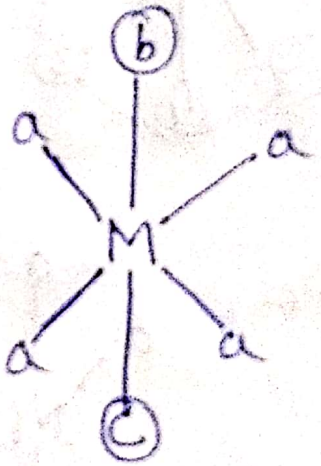


cis

Cr.I. = 2

④ Ma_4bc

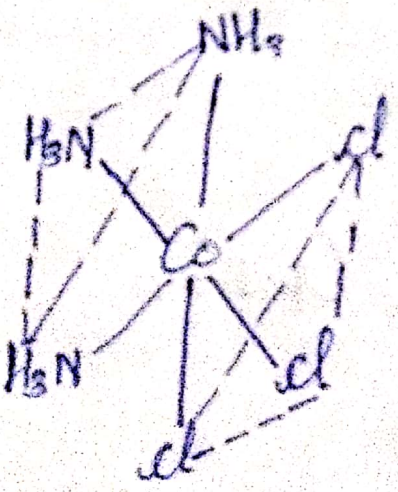




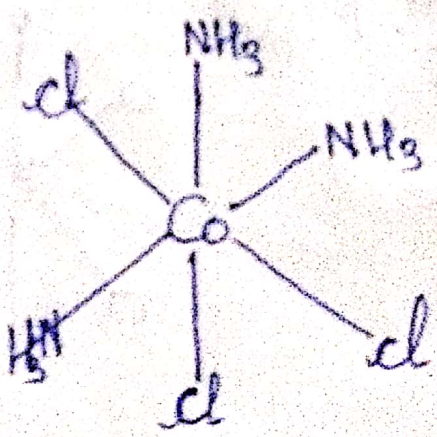
Cr.I. = 2

⑤ Ma_3b_3

Cr.I. = 2

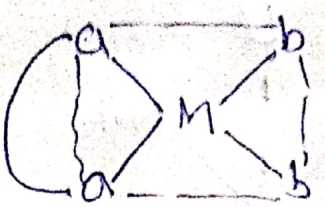


Facial or facisomer



Meridonal or meriso mer

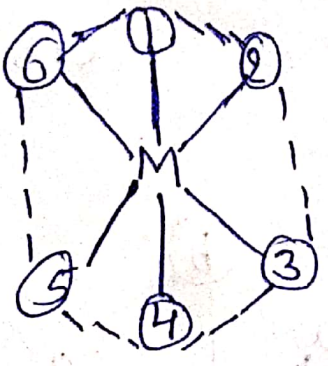
Type $M(aa)b_2$



Cr. I. = 0

C.N. = 6

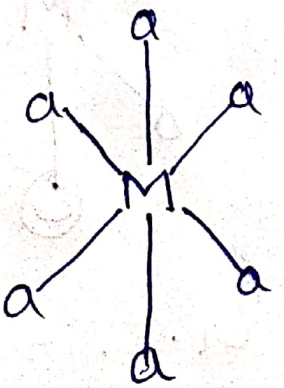
d^2sp^3/sp^3d^3 octahedral



Cis → (1,2) (1,3) (1,5) (1,6) (4,3)
(4,2) (4,6) (4,5)
(2,6) (2,3)
(5,6) (5,3)

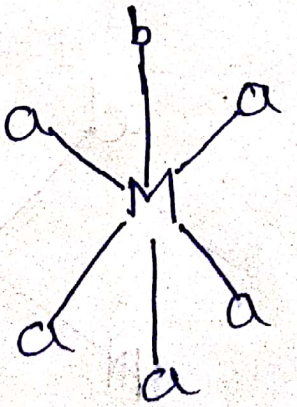
trans → (1,4) (2,5) (3,6)

① Ma_6



Cr. I. = 0

② Ma_5b



Cr. I = 0