

IUPAC Nomenclature of Coordination Compounds

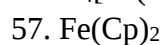
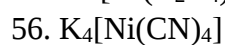
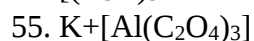
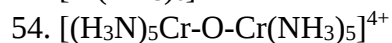
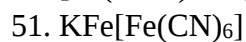
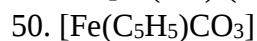
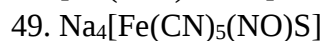
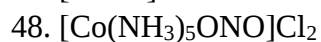
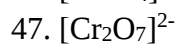
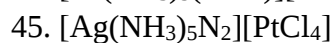
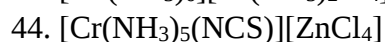
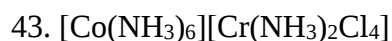
BSc (P) Life Science, Semester V (Section A and B)

Paper Name: Chemistry of d-Block Elements, Quantum Chemistry and Spectroscopy

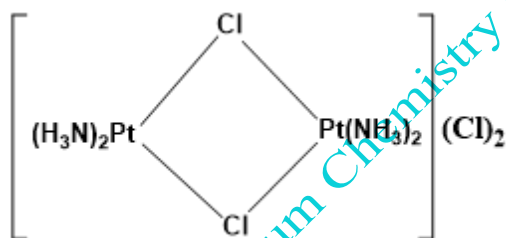
Write IUPAC names of the following coordination compounds:

1. $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
2. $\text{K}_4[\text{Fe}(\text{CN})_6]$
3. $\text{K}_2[\text{OsCl}_5\text{N}]$
4. $[\text{CoCl}(\text{NH}_3)_5]\text{Cl}_2$
5. $[\text{Cr}(\text{H}_2\text{O})_4\text{Cl}_2]\text{Cl} \cdot 2\text{H}_2\text{O}$
6. $[\text{CoCl}(\text{NH}_3)_5]^+$
7. $[\text{CoSO}_4(\text{NH}_3)_4]\text{NO}_3$
8. $[\text{CoCl} \cdot \text{CN} \cdot \text{NO}_2(\text{NH}_3)_3]$
9. $[\text{Zn}(\text{NCS})_4]^{2+}$
10. $[\text{Cd}(\text{SCN})_4]^{2+}$
11. $\text{Li}[\text{AlH}_4]$
12. $\text{K}_3[\text{Fe}(\text{CN})_6]$
13. $\text{K}_3[\text{Fe}(\text{CN})_5\text{NO}]$
14. $\text{Na}_3[\text{Ag}(\text{S}_2\text{O}_3)_2]$
15. $\text{K}_2[\text{Cr}(\text{CN})_2\text{O}_2(\text{O}_2)\text{NH}_3]$
16. $\text{Na}_2[\text{CrF}_4\text{O}]$
17. $\text{Hg}[\text{Co}(\text{SCN})_4]$
18. $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3$
19. $\text{K}_2[\text{Zn}(\text{OH})_4]$
20. $[\text{HgI}_3]^-$
21. $\text{Cu}_2[\text{Fe}(\text{CN})_6]$
22. $\text{K}_2[\text{HgI}_4]$
23. $\text{Na}[\text{Co}(\text{CO})_4]$
24. $\text{Na}_2[\text{Ni}(\text{EDTA})]$
25. $[\text{Fe}(\text{C}_5\text{H}_5)_2]$
26. $[\text{Cr}(\text{en})_3]\text{Cl}_3$
27. $[\text{CuCl}_2(\text{CH}_3\text{NH}_2)_2]$
28. $[\text{Cr}(\text{C}_6\text{H}_6)_2]$
29. $[\text{CuCl}_2(\text{NH}_2\text{CONH}_2)_2]$
30. $[\text{Ag}(\text{NH}_3)_2]\text{OH}$
31. $[\text{Cr}(\text{PPh}_3)(\text{CO})_5]$
32. $[\text{Ni}(\text{CO})_4]$
33. $[\text{Ni}(\text{dmg})_2]$
34. $(\text{NH}_4)_2[\text{Pt}(\text{NCS})_4]$
35. $\text{H}[\text{BF}_4]$
36. $\text{H}[\text{AuCl}_4]$
37. $\text{Na}[\text{PCl}_6]$
38. CH_3MgI
39. $[\text{Pt}(\text{NH}_3)_4][\text{PtCl}_4]$
40. $[\text{Cr}(\text{NH}_3)_6][\text{CoF}_6]$
41. $[\text{Co}(\text{en})_3][\text{Cr}(\text{CN})_6]$
42. $[\text{Pt}(\text{py})_4][\text{PtCl}_4]$

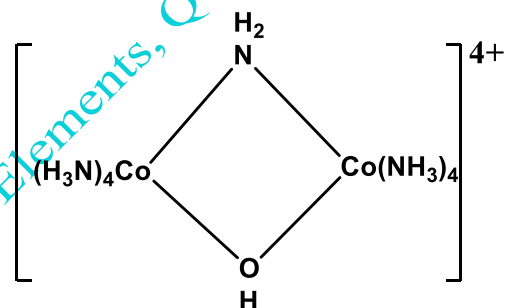
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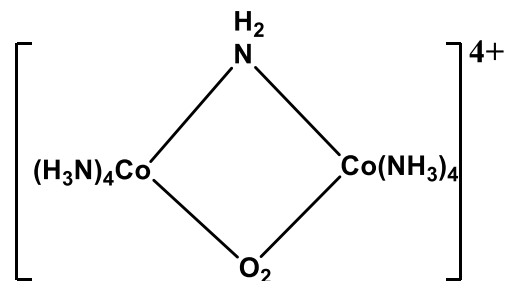
58.



59.



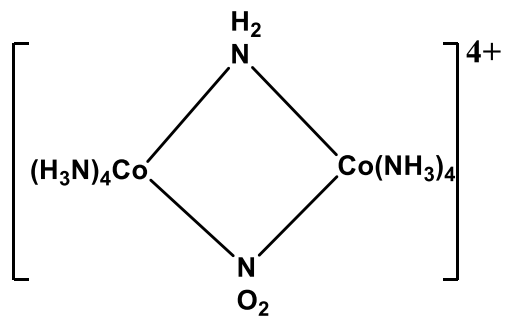
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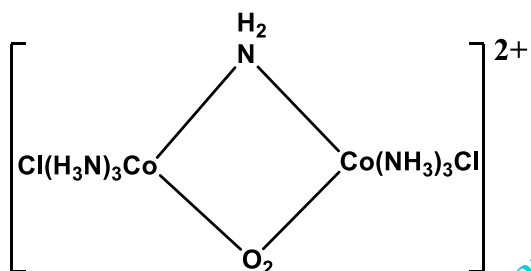
61.

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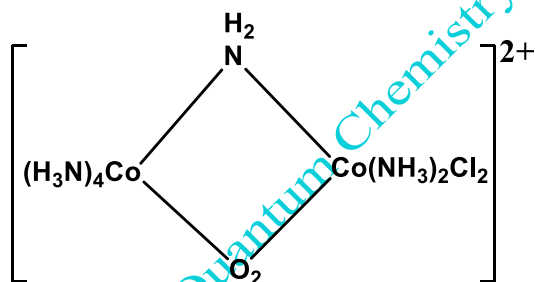
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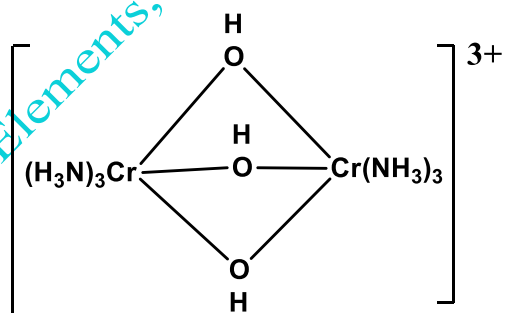
63.



64.



65.



66. $[\text{Be}_4(\text{CH}_3\text{COO})_6]$

