

## Worksheet: Coordination Compounds

IB · Class 12 · Chemistry · 5 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** What isomerism is shown by  $[\text{Co}(\text{NH}_3)_5(\text{ONO})]^{2+}$  and  $[\text{Co}(\text{NH}_3)_5(\text{NO}_2)]^{2+}$ ? [2 marks]

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**Q2.** What is the coordination number of Co in  $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]^+$ ? [2 marks]

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**Q3.** Name one medicinal application of a coordination compound. [2 marks]

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**Q4.** Write the IUPAC name of  $\text{K}_3[\text{Fe}(\text{C}_2\text{O}_4)_3]$ . [2 marks]

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**Q5.**  $[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$  has 5 unpaired electrons while  $[\text{Fe}(\text{CN})_6]^{3-}$  has 1. Explain. [3 marks]

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