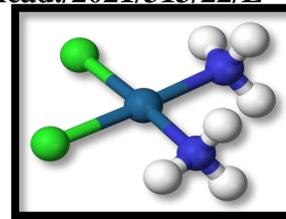
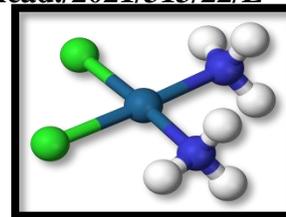


National Institute of Open Schooling
Senior Secondary Course: Chemistry
Chapter 22: Coordination Compounds
Worksheet-22



- (1) Nowadays peoples are interested in wearing ornaments made up of platinum
- (i) Name the drug prepared from platinum which saves our life.
- (ii) Will you save platinum by not wearing it as a Jeweler or ornaments or you are interested in wearing ornaments made of platinum? Why?
- (iii) Which disease can be cured by Platinum complex? What is the complex name?
2. What is the role of coordination in society that you learn from the chemistry of coordination?
3. Shalu is a poor girl. She never brings tiffin box to school. Asha is her friend and Asha shares her tiffin box with Shalu.
- (i) Seeing this condition which type of chemical bond do you recall?
- (ii) Which type of value Asha has?
- (iii) Can you give a complex name and formula with this type of bond?
4. A person is suffering from anemia which coordination compound will you suggest for recovery of anemia?
5. When cobalt (III) chloride and ammonia are combined we get yellow, purple, green, violet colored coordination complexes. Likewise when people make friendship with different type of people their personality changes.
- (i) Which type of friends are you?
- (ii) Write any two complexes formed by the combination CoCl_3 and NH_3 .
- (iii) Write any one good character of your friend.

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6. Hard water does not form lathers with soap. Shalu uses a washing powder containing sodium metapolyphosphate and ethylenediamine tetracetate (EDTA) while Komal is using ordinary washing power. Give your Suggestions.
- (a) Which washing powder is more effective for washing clothes in hard water and why?
- (b) Name the values associated with the above passage.
7. A lot of children, working in a lead industry were rescued by NGO's activists. The children were sent to the hospital and found to be excess exposure to lead so called lead poisoning. Give your Suggestions.
8. Write the IUPAC name for the following coordination compounds:
- (i) $[\text{Co}(\text{NH}_3)_4(\text{H}_2\text{O})\text{Cl}]\text{Cl}_2$
- (ii) $[\text{CrCl}_2(\text{en})_2]\text{Cl}$,
 (en = ethane – 1, 2 – diamine)
9. Describe the shape and magnetic behaviour of following complexes :
- (i) $[\text{Co}(\text{NH}_3)_6]^{3+}$
- (ii) $[\text{Ni}(\text{CN})_4]^{2-}$ (At. No. Co = 27, Ni = 28)
10. How is the stability of a co-ordination compound in solution decided?
 How is the dissociation constant of a complex defined?