

PYQSide

NEET COORDINATION COMPOUNDS — WERNER'S THEORY — PYQS

Max. Marks: 24

Questions: 6

Section A (MCQ)

Q.1 A 1:3 electrolyte in an aqueous solution is

[RE-NEET (UG) 2026]

- (1) $[\text{Co}(\text{NH}_3)_3(\text{NO}_2)_3]$ (2) $[\text{CoCl}_2(\text{NH}_3)_4]\text{Cl}$
 (3) $[\text{CoCl}(\text{NH}_3)_5]\text{Cl}_2$ (4) $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$

Scan or tap for the
full solution



Q.2 Out of the following complex compounds, which of the compound will be having the minimum conductance solution?

[NEET (UG) 2025]

- (1) $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$ (2) $[\text{Co}(\text{NH}_3)_5\text{Cl}]\text{Cl}$
 (3) $[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$ (4) $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]$

Scan or tap for the
full solution



Q.3 The correct order of the stoichiometries of AgCl formed when AgNO_3 in excess is treated with the complexes : $\text{CoCl}_3 \cdot 6\text{NH}_3$, $\text{CoCl}_3 \cdot 5\text{NH}_3$, $\text{CoCl}_3 \cdot 4\text{NH}_3$ respectively is

[NEET 2017]

- (1) 3AgCl, 1AgCl, 2AgCl
 (2) 3AgCl, 2AgCl, 1AgCl
 (3) 2AgCl, 3AgCl, 2AgCl
 (4) 1AgCl, 3AgCl, 2AgCl

Scan or tap for the
full solution



Q.4 Cobalt (III) chloride forms several octahedral complexes with ammonia. Which of the following will not give test for chloride ions with silver nitrate at 25°C ?

[AIPMT 2015 (Cancelled)]

- (1) $\text{CoCl}_3 \cdot 5\text{NH}_3$ (2) $\text{CoCl}_3 \cdot 6\text{NH}_3$
 (3) $\text{CoCl}_3 \cdot 3\text{NH}_3$ (4) $\text{CoCl}_3 \cdot 4\text{NH}_3$

Scan or tap for the
full solution



Q.5 An excess of AgNO_3 is added to 100 mL of a 0.01 M solution of dichlorotetraaquachromium(III) chloride. The number of moles of AgCl precipitated would be

[NEET 2013]

- (1) 0.003 (2) 0.01 (3) 0.001 (4) 0.002

Scan or tap for the
full solution



Q.6 Which of the following will exhibit maximum ionic conductivity? [AIPMT 2001]

- (1) $\text{K}_4[\text{Fe}(\text{CN})_6]$ (2) $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
 (3) $[\text{Cu}(\text{NH}_3)_4]\text{Cl}_2$ (4) $[\text{Ni}(\text{CO})_4]$

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	
Ans.	4	3, 4	2	3	3	1	