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NEET COORDINATION COMPOUNDS — STRUCTURAL ISOMERISM IN COORDINATION COMPOUNDS — PYQS

Max. Marks: 16 **Questions:** 4

Section A (MCQ) — 4 questions

Q.1 Match **List I** with **List II**.

List I (Complex)		List II (Type of isomerism)	
A.	$[Co(NH_3)_5(NO_2)]Cl_2$	I.	Solvate isomerism
B.	$[Co(NH_3)_5(SO_4)]Br$	II.	Linkage isomerism
C.	$[Co(NH_3)_6][Cr(CN)_6]$	III.	Ionization isomerism
D.	$[Co(H_2O)_6]Cl_3$	IV.	Coordination isomerism

Choose the correct answer from the options given below: [NEET (UG) 2024]

(1) A-II, B-III, C-IV, D-I (2) A-I, B-III, C-IV, D-II

(3) A-I, B-IV, C-III, D-II (4) A-II, B-IV, C-III, D-I

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Q.2 Match **List-I** with **List-II** :

List-I (Complexes)		List-II (Types)	
a.	$[Co(NH_3)_5NO_2]Cl_2$ and $[Co(NH_3)_5ONO]Cl_2$	i.	ionisation isomerism
b.	$[Cr(NH_3)_6][Co(CN)_6]$ and $[Cr(CN)_6][Co(NH_3)_6]$	ii.	coordination isomerism
c.	$[Co(NH_3)_5(SO_4)]Br$ and $[Co(NH_3)_5Br]SO_4$	iii.	linkage isomerism
d.	$[Cr(H_2O)_6]Cl_3$ and $[Cr(H_2O)_5Cl]Cl_2 \cdot H_2O$	iv.	solvate isomerism

Choose the correct answer from the options given below : [NEET (UG) 2022 (Phase 2)]

(1) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

(2) (a)-(iii), (b)-(i), (c)-(ii), (d)-(iv)

(3) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)

(4) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)

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Q.3 The complexes $[Co(NH_3)_6][Cr(CN)_6]$ and $[Cr(NH_3)_6][Co(CN)_6]$ are the examples of which type of isomerism? [AIPMT 2011 (Prelims)]

(1) Linkage isomerism

(2) Ionization isomerism

(3) Coordination isomerism

(4) Geometrical isomerism

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Q.4 $[Co(NH_3)_4(NO_2)_2]Cl$ exhibits [AIPMT 2006]

(1) linkage isomerism, geometrical isomerism and optical isomerism

(2) linkage isomerism, ionization isomerism and optical isomerism

(3) linkage isomerism, ionization isomerism and geometrical isomerism

(4) ionization isomerism, geometrical isomerism and optical isomerism.

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ANSWER KEY

Ques.	1	2	3	4							
Ans.	1	4	3	3							