Terms used in coordination chemistry, Oxidation state (number), Coordination number, Denticity.

IMHT CET 20151	
[MHT-CET 2017]	
e correct charge on and coordination number of 'Fe' in K ₃ [Fe(CN) ₆] is	
+2,4 b) +3,6 c) +2,6 d) +3,3	
[MHT-CET 2018]	
hat is the oxidation number of gold in the complex [AuCl ₄]-?	
+4 b) +3 c) +2 d) +1	
[MHT-CET 2019]	
hat is the denticity of ethylene diamine tetra - acetate ion?	
4 b) 2 c) 1 d) 6	
ne coordination number of Pt2+ ion in [Pt Cl2(NH3)2] complex is	
4 b) 8 c) 2 d) 6	
[MHT-CET 2020]	
hich among the following coordination compounds does not have coordination	rdinati
umber equal to number of ligands?	
$[\text{Co}(\text{NH}_3)_6]^{3+}$ b) $[\text{Cu}(\text{NH}_3)_4]^{2+}$ c) $[\text{Co}(\text{en})_3]^{3+}$ d) $[\text{Pt}(\text{NH}_3)_6]^{3+}$	14+
hich statement from the following is true for a complex hexammineco	
hloride?	
It is an anionic complex	
In this coordination number of cobalt is +3	
In this oxidation state of cobalt is +3	
It is heteroleptic complex	
dentify the oxidation state of Cr in $K_3[Cr(C_2O_4)_3]$	
a) + 5 b) + 2 c) + 6 d) + 3	
What is the oxidation number of Fe in $K_3[Fe\ (CN)_6]$?	
b) +6 c) +3 d) -3	
What is the oxidation number of Ru in [Ru (NH ₃) ₅ H ₂ O] Cl ₂ ?	
a) +2 b) +5 c) +1 d) +6	
What are the oxidation state and coordination number of platinum respec	ctively
1,411316 4.	~
a ± 6 and a d $+ 4$ and a	
What is exidation state of iron in potassium hexacyanoferrate (II)?	
a) +3	
a) +3 b) +2 c) +6 d) +4	ectively
What is the coordination number of Pt in [PtCl ₂ (NH ₃) ₂] and [Pt (NH ₃) ₆]* resp	
What is the coordination number of Pt in [PtCl ₂ (NH ₃) ₂] and [Pt (NH ₃) ₆]* resp	,
What is the coordination number of Pt in [PtCl ₂ (NH ₃) ₂] and [Pt (NH ₃) ₆]* resp a) 2 and 4 b) 2 and 2 c) 4 and 6 d) 4 and 4 Which among the following compounds is cationic complex?	,
What is the coordination number of Pt in [PtCl ₂ (NH ₃) ₂] and [Pt (NH ₃) ₆]* resp	

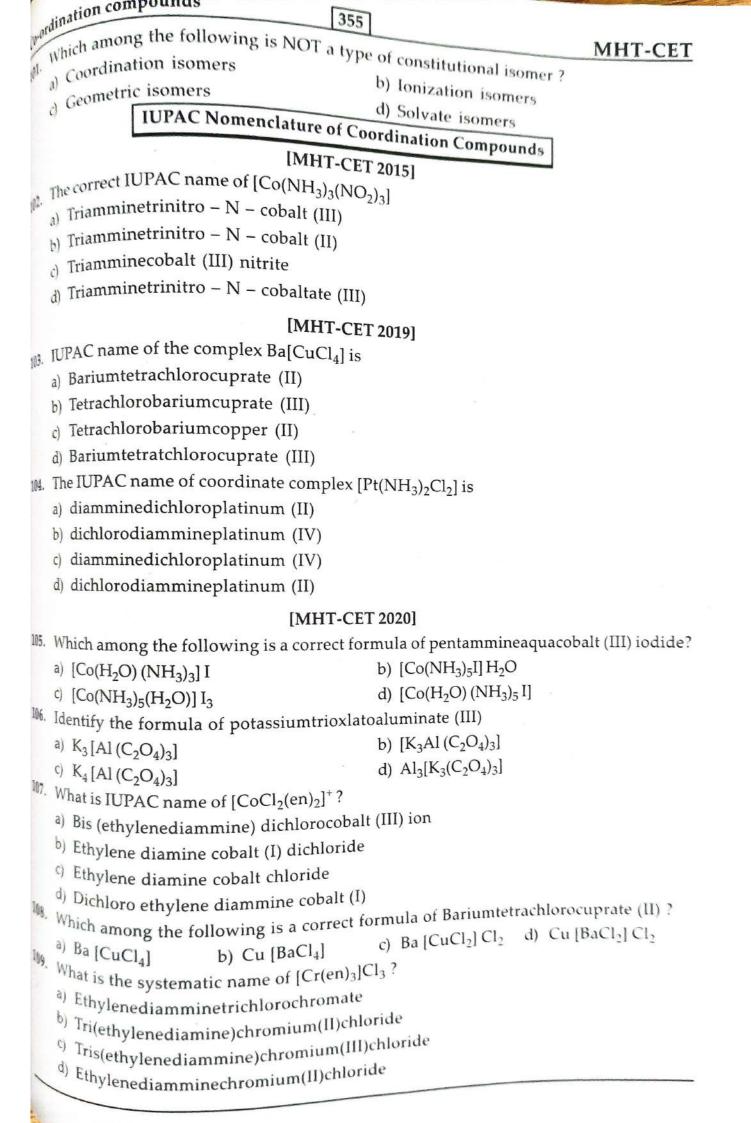
(A-ordinate (Co-ordinate (Co-or		dination compounds [352] dination compounds [352] d) + 3	The 35
a) **2* a) **2* a) **4* a) **4	Co-or	dinator comparison number of central metal de d) + 3	1 1
a) **2* a) **2* a) **4* a) **4	66.	What is the oxidation b) + 6	2
[MHT-CET 2021] (88. Which among the following is a homoleptic complex? (a) [Pt Bt ₂ (NH ₃) ₄] Br ₂ d) [Fe(H ₂ O) ₅ CN (S)] ^{2*} (c) N ₅ [Al (C ₂ O ₄) ₃] (e) Identify homoleptic complex from following. (e) [Co(NH ₃) ₅ CI] SO ₄ (a) [Co(NH ₃) ₄ CI ₂] (c) (Co(NH ₃) ₄ CI ₂] (d) [Co(NH ₃) ₅ CI] SO ₄ (e) [Co(NH ₃) ₄ CI ₂] (e) Which among following statements is true about Na ₄ [Fe(CN) ₆]? (e) Which among following statements is true about Na ₄ [Fe(CN) ₆]? (f) Which among following statements is true about Na ₄ [Fe(CN) ₆]? (e) It is a neutral complex. (f) The complex ion carries – 4 charge. (g) It is a neutral complex. (g) The oxidation state of Fe in this complex is +6 (g) The C. N. of Fe in this complex is +6 (g) The C. N. of Fe in this complex is 10 [MHT-CET 2022] (how many unpaired electrons are present in cobalt ion in +3 oxidation state prior to hybridization in [CoF ₆] ³⁻ complex ion? (a) 2 (b) 1 (c) 4 + (c) 2 coro (d) 2 (c) 2 (c) 2 + (c) 2 coro (d) 2 (d) 4 (e) 4 + (d) 6 + (d) 6 (f) 4 (f) 4 (f) 4 (f) 5 (f) 6 (f) 7 (f) 6 (f) 7 (f) 6 (f) 7 (f) 7 (f) 7 (f) 7 (f) 7 (f) 8 (f) 7 (f) 7 (f) 8 (f) 9 (f)		a) +2 d) +6	19. a) 2
[MHT-CET 2021] 88. Which among the following is a homoleptic complex? a) [Pt Br ₂ (NH ₃) ₄] Br ₂ d) [Fe(H ₂ O) ₅ CN (5)] ²⁺ c) N ₅ [Al (C ₅ O ₄) ₅] 69. Identity homoleptic complex from following. 69. Identity homoleptic complex from following. 61. [Co(NH ₃) ₅ O ₂] ³⁻ c) [Co(NH ₃) ₅ O ₂] ⁵ 70. Which among following statements is true about Na ₄ [Fe(CN) ₆] ? 71. Which among following statements is true about Na ₄ [Fe(CN) ₆] ? 72. Which among following statements is true about Na ₄ [Fe(CN) ₆] ? 73. Identity the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ > Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ > Cu ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ > Cu ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ 74. Identify the co-ordination number of cobalt ion in hexaammine cobalt (III) ion. b) Triamminetrinitrocobalt (III) c) Pentaamminetrinitrocobalt (III) on Effective atomic number (EAN) rule 1MHT-CET 2017 (Given : At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29)	67.	What is oxidation state () +3	
68. Which among the following is a homoleptic complex b) [Co(NO ₂) ₃ (NH ₃) ₃] a) [Pt Bt ₂ (NH ₃) ₄] Bt ₂ d) [Fe(H ₂ O) ₅ CN (5)] ²⁺ c) K ₃ [At(C ₂ O ₄) ₃] 69. Identity homoleptic complex from following b) [Co(NH ₃) ₅ CI] SO ₄ a) [Co(NH ₃) ₄ CI ₂] ³⁺ d) [Co(H ₂ O) (NH ₃) ₅ II ₅ c) [Co(NH ₃) ₄ CI ₂] ³⁺ 70. Which among following statements is true about Na ₄ [Fe(CN) ₆] ? which among following statements is true about Na ₄ [Fe(CN) ₆] ? 71. Which among following statements is true about Na ₄ [Fe(CN) ₆] ? 81. It is a neutral complex. c) The oxidation state of Fe in this complex is +6 d) The C. N. of Fe in this complex is 10 [MHT-CET 2022] 71. How many unpaired electrons are present in cobalt ion in +3 oxidation state prior to hybridization in [CoF ₆] ³⁻ complex ion? a) 3 b) 4 c) zero d) 2 72. What is the oxidation state of cobalt in complex [Co(NH ₃) ₆] ³⁺ ? a) 2 + b) 3 + c) 4 + d) 6 + 73. Identify the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ Ni ²⁺ > Fe ²⁺ < Cu ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ < Cu ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ < Cu ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ × Cu ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ > Co ²⁺ > Ni ²⁺ > Co ²⁺ > Ni ²⁺ > Co ²⁺ 1. Identify the co-ordination number of cobalt ion in hexaammine cobalt (III) iodide complex. a) 4 b) 6 c) 8 d) 5 1. Identify cationic complex from following. a) Tetracyanonickelate (II) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) sulphate d) Trioxalatocobaltate (III) ion Effective atomic number (EAN) rule 1. IMIT-CET 20171 (Given: At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29)		IMHT-CET 20211	wha
a) [Pt Rr ₂ (NH ₃) ₄] Br ₂ c) K ₃ [Al (C ₂ O ₄) ₃] c) K ₃ [Al (C ₂ O ₄) ₃] d) [Co(NH ₃) ₅ Cl] SO ₄ a) [Co(NH ₃) ₅ l ^{3*} d) [Co(NH ₃) ₅ Cl] SO ₄ a) [Co(NH ₃) ₄ l ^{3*} c) [Co(NH ₃) ₄ l ^{3*} d) [Co(NH ₃) ₅ Ll ₃ c) [Co(NH ₃) ₄ Cl ₂ l [*] a) The complex ion carries – 4 charge. b) It is a neutral complex. c) The oxidation state of Fe in this complex is + 6 d) The C. N. of Fe in this complex is 10 [MHT-CET 2022] 71. How many unpaired electrons are present in cobalt ion in +3 oxidation state prior to hybridization in [CoF ₆] ³⁻ complex ion? a) 3 b) 4 c) zero d) 2 72. What is the oxidation state of cobalt in complex [Co(NH ₃) ₆] ³⁺ ? a) 2 + b) 3 + c) 4 + d) 6 + 73. Identify the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ Ni ²⁺ Fe ²⁺ Cu ²⁺ b) Cu ²⁺ Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ Co ²⁺ > Fe ²⁺ Ni ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ 74. Identify the co-ordination number of cobalt ion in hexaammine cobalt (III) iodide complex. a) 4 b) 6 c) 8 d) 5 1dentify cationic complex from following. a) Tetracyanonickelate (II) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) on b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) ion Effective atomic number (EAN) rule 1MHT-CET 2017] (Given : At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29)		a homoleptic complex ?	
a) [Pt Rr ₂ (NH ₃) ₄] Br ₂ c) K ₃ [Al (C ₂ O ₄) ₃] c) K ₃ [Al (C ₂ O ₄) ₃] d) [Co(NH ₃) ₅ Cl] SO ₄ a) [Co(NH ₃) ₅ l ^{3*} d) [Co(NH ₃) ₅ Cl] SO ₄ a) [Co(NH ₃) ₄ l ^{3*} c) [Co(NH ₃) ₄ l ^{3*} d) [Co(NH ₃) ₅ Ll ₃ c) [Co(NH ₃) ₄ Cl ₂ l [*] a) The complex ion carries – 4 charge. b) It is a neutral complex. c) The oxidation state of Fe in this complex is + 6 d) The C. N. of Fe in this complex is 10 [MHT-CET 2022] 71. How many unpaired electrons are present in cobalt ion in +3 oxidation state prior to hybridization in [CoF ₆] ³⁻ complex ion? a) 3 b) 4 c) zero d) 2 72. What is the oxidation state of cobalt in complex [Co(NH ₃) ₆] ³⁺ ? a) 2 + b) 3 + c) 4 + d) 6 + 73. Identify the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ Ni ²⁺ Fe ²⁺ Cu ²⁺ b) Cu ²⁺ Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ Co ²⁺ > Fe ²⁺ Ni ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ 74. Identify the co-ordination number of cobalt ion in hexaammine cobalt (III) iodide complex. a) 4 b) 6 c) 8 d) 5 1dentify cationic complex from following. a) Tetracyanonickelate (II) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) on b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) ion Effective atomic number (EAN) rule 1MHT-CET 2017] (Given : At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29)	68.	Which among the following is a little b) [Co(NO ₂) ₃ (NH ₃) ₃]	
69. Identify homoleptic complex from following. 69. Identify homoleptic complex from following. 69. Identify homoleptic complex from following. 69. ICo(NH ₃) ₅ Cl ₃ D ³ c) [Co(NH ₃) ₄ Cl ₂ D ³ d) [Co(H ₂ O) (NH ₃) ₅ I I ₃ e) [Co(NH ₃) ₄ Cl ₂ D ³ 70. Which among following statements is true about Na ₄ [Fe(CN) ₆]? which among following statements is true about Na ₄ [Fe(CN) ₆]? 71. How many interest of Fe in this complex is +6 d) The C. N. of Fe in this complex is 10 [MHT-CET 2022] 72. What is the oxidation state of cobalt in complex [Co(NH ₃) ₆] ³⁺ ? a) 2 + b) 3 + c) 4 + d) 6 + 73. Identify the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ × Ni ²⁺ > Fe ²⁺ > Cu ²⁺ b) Cu ²⁺ > Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ > Ni ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ 1dentify the co-ordination number of cobalt ion in hexaammine cobalt (III) iodide complex. a) 4 b) 6 c) 8 d) 5 1dentify cationic complex from following. a) Tetracyanonickalae (III) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) on. Effective atomic number (EAN) rule 1MHT-CET 20171 (Given : At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29) a) [Pt(NH ₂), Pt ²⁺ b) Cu ²⁺ > D, Cu = 29)		a) $[Pt Br_2 (NH_3)_4] Br_2$ d) $[Fe(H_2O)_5 CN (S)]^{2+}$	7.
a) [Co(NH ₃) ₃] ³⁺ d) [Co(H ₂ O) (NH ₃) ₅] I ₃ c) [Co(NH ₃) ₄ Cl ₂] ⁴ d) [Co(H ₂ O) (NH ₃) ₅] I ₃ c) [Co(NH ₃) ₄ Cl ₂] ⁴ d) The complex ion carries – 4 charge. b) It is a neutral complex. c) The oxidation state of Fe in this complex is + 6 d) The C. N. of Fe in this complex is 10 [MHT-CET 2022] 71. How many unpaired electrons are present in cobalt ion in +3 oxidation state prior to hybridization in [CoF ₆] ³⁻ complex ion? a) 3 b) 4 c) zero d) 2 a) 3 b) 4 c) zero d) 2 72. What is the oxidation state of cobalt in complex [Co(NH ₃) ₆] ³⁺ ? a) 2 + b) 3 + c) 4 + d) 6 + 73. Identify the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ > Ni ²⁺ > Fe ²⁺ > Cu ²⁺ b) Cu ²⁺ > Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ > Ni ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ 74. Identify the co-ordination number of cobalt ion in hexaammine cobalt (III) iodide complex. a) 4 b) 6 c) 8 d) 5 Identify cationic complex from following. a) Tetracyanonickelate (II) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) on [Effective atomic number (EAN) rule] 16. Which of the following coordinate complexes is an exception to EAN rule? a) [Pt (NH ₂) ₂ ¹⁺ b) No. Pt = 78, Fe = 26, Z = 30, Cu = 29)		A V [A] (C-O-)-]	(Att
a) [Co(NH ₃) ₃] ³⁺ d) [Co(H ₂ O) (NH ₃) ₅] I ₃ c) [Co(NH ₃) ₄ Cl ₂] ⁴ d) [Co(H ₂ O) (NH ₃) ₅] I ₃ c) [Co(NH ₃) ₄ Cl ₂] ⁴ d) The complex ion carries – 4 charge. b) It is a neutral complex. c) The oxidation state of Fe in this complex is + 6 d) The C. N. of Fe in this complex is 10 [MHT-CET 2022] 71. How many unpaired electrons are present in cobalt ion in +3 oxidation state prior to hybridization in [CoF ₆] ³⁻ complex ion? a) 3 b) 4 c) zero d) 2 a) 3 b) 4 c) zero d) 2 72. What is the oxidation state of cobalt in complex [Co(NH ₃) ₆] ³⁺ ? a) 2 + b) 3 + c) 4 + d) 6 + 73. Identify the correct decreasing stability order of complexes formed by metal ions with same ligand. a) Co ²⁺ > Ni ²⁺ > Fe ²⁺ > Cu ²⁺ b) Cu ²⁺ > Ni ²⁺ > Co ²⁺ > Fe ²⁺ c) Cu ²⁺ > Co ²⁺ > Fe ²⁺ > Ni ²⁺ d) Fe ²⁺ > Co ²⁺ > Ni ²⁺ > Cu ²⁺ 74. Identify the co-ordination number of cobalt ion in hexaammine cobalt (III) iodide complex. a) 4 b) 6 c) 8 d) 5 Identify cationic complex from following. a) Tetracyanonickelate (II) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (III) on [Effective atomic number (EAN) rule] 16. Which of the following coordinate complexes is an exception to EAN rule? a) [Pt (NH ₂) ₂ ¹⁺ b) No. Pt = 78, Fe = 26, Z = 30, Cu = 29)	69.	Identify homoleptic complex from following.	a)
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a) Tetracyanonickelate (II) ion b) Triamminetrinitrocobalt (III) c) Pentaamminechlorocobalt (II) sulphate d) Trioxalatocobaltate (III) ion. Effective atomic number (EAN) rule IMHT-CET 2017] 90. (Given: At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29) a) [Pt (NH ₃) ₆] ⁴⁺ b) IF (Christian description to EAN rule?	75.	Identify cationic complex from following.	20'
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c) Pentaamminechlorocobalt (II) sulphate d) Trioxalatocobaltate (III) ion. Effective atomic number (EAN) rule [MHT-CET 2017] Which of the following coordinate complexes is an exception to EAN rule? (Given: At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29) a) [Pt (NH ₃) ₄] ⁴⁺ b) (Fe (Chiracter)			0
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(Given : At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29) (Given : At. No. Pt = 78, Fe = 26, Z = 30, Cu = 29)			
a) [Pt (NH ₂) ₄] ⁴⁺ b) (F. (Co. 1)	76.	Which of the following coard:	90.
a) [Pt (NH ₂) ₄] ⁴⁺ b) (F. (Co. 1)		(Given: At. No. Pt = 78 Fo = 26.5)	
c) $[Zn(NH_3)_4]^{2+}$ d) $[Cu(NH_2)_4]^{2+}$		a) [Pt (NH ₃) _c] ⁴⁺ b) (F. (C)	
		c) $[Zn(NH_3)_4]^{2+}$ d) $[Cu(NH_3)_4]^{2+}$	91.

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Co-o	ordination compounds Isomerism in complexes Isomerism in CET 20151
	Isomerism [Isomerism] Isomerism (SCN) ₄] [Cr(NH ₃) ₄ (SCN) ₂] are the example (NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₂ (SCN) ₄] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₆] [Cr(NH ₃) ₆] [Cr(SCN) ₆] and [Cr (NH ₃) ₆] [Cr(NH ₃) ₆] [Cr(SCN) ₆] [Cr(NH ₃) ₆
	1(Cr (NH3)2 (SCN)411C
	Cr (NH ₃) ₆ Cr(SCN) ₆ and Cr b) Linkage isomerism
92.	A -1 In the Cit Inches
	1 altim Isolite
	2:
	[MH1-CE treatment of cancer?
	Which among the following is used in the treatment of cancer? b) Cis – [Pt Cl ₂ (NH ₃) ₂]
93.	a) Trans – [Pt (NH ₃) ₂ Cl ₂] d) Cis – [Pt (en) ₂ Cl ₂]
	a) Trans - [Pt (en) 2 Cl2]
	a) Trans = [Pt (en) ₂ Cl ₂] c) Trans = [Pt (en) ₂ Cl ₂] The complex ions [CO(H ₂ O) ₅ (ONO)] ²⁺ and [CO (H ₂ O) ₅ NO ₂] ²⁺ are b) geometrical isomers
94.	
	 a) linkage isomers d) ionization Isomers.
	[MHT-CET 2020]
	What type of isomerism is present between (i) [Cr(H ₂ O) ₆] Cl ₃ and (ii) [Cr(H ₂ O) ₅
95.	
	H ₂ O? a) Coordination b) Linkage c) Ionization d) Hydrates
96.	Which among the following pairs of compounds is an example of linkage isome
50.	a) [Co(NH ₃) ₅ NO ₂]SO ₄ and [Co(NH ₃) ₅ SO ₄] NO ₂
	b) [Co(NH ₃) ₅ NO ₂]Cl ₂ and [Co(NH ₃) ₅ ONO] Cl ₂
	c) $[Cr(H_2O)_6]Cl_3$ and $[Cr(H_2O)_5Cl]Cl_2H_2O$
	d) [Co(NH ₃) ₅ SO ₄] Br and [Co(NH ₃) ₅ Br] SO ₄
97.	[MHT-CET 2022]
	Identify the type of isomerism exhibited by complex compounds, $[Cr(H_2O)_6]Cr(H_2O)_5Cl]Cl_2H_2O$.
	a) Ionization isomerism
98.	c) Solvate isomerism b) Coordination isomerism
90.	What type of isomerism is exhibited by [Co(NH ₃) ₆] [Cr(CN) ₆] and [Cr(NH ₃) ₆] [Co(CN) ₆]
	a) Linkage isomerism [Co(NH ₃) ₆] [Cr(CN) ₆] and [Cr(NH ₃) ₆] [Co(CN) ₆]
99.	D) Ionization :
	Which among the following complexes exhibits the geometrical as well as a Property (NH ₃) (H ₂ O) Cl ₂ !
	a) (British)?
100.	c) [Co(en) ₃] ³ , Identify b) [Pt Cl ₂ (en) ₁₂ t
	b) [Pt Cl ₂ (en) ₂] ²⁺ d) [Pt (NH ₃) ₂ Cl ₂] a) [Co(NH ₃) ₅ (NO ₂)] ²⁺ and [Co(NH ₃) ₅ (ONO)] ²⁺ b) [Co(NH ₃) ₆] [Cr(CN) ₆] and [Cr(NH ₃) ₅ (ONO)] ²⁺
	b) [Co(N) and [Co(N) and [Co(N)]
	Manual Company of the
	c) (Co/N) and (CN) and (CNO) 2*
	a) $[Co(NH_3)_5(NO_2)]^{2*}$ and $[Co(NH_3)_5(NO_2)]^{2*}$ and $[Co(NH_3)_5(NO_2)]^{2*}$ and $[Co(NH_3)_5(NO_2)]^{2*}$ c) $[Co(NH_3)_5SO_4]$ Br and $[Cr(NH_3)_6]$ $[Co(CN)_6]$ and $[Cr(NH_3)_6]$ $[Co(CN)_6]$ and $[Cr(NH_3)_6]$ $[Co(CN)_6]$
	b) $[Co(NH_3)_5(NO_2)]^{2*}$ and $[Co(NH_3)_5(ONO)]^{2*}$ c) $[Co(NH_3)_6][Cr(CN)_6]$ and $[Cr(NH_3)_6][Co(CN)_6]$ d) $[Cr(H_2O)_6]Cl_3$ and $[Cr(NH_3)_5Br]SO_4$



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110	What is systematic name of [Co(NH ₃) ₄ Cl ₂]Cl?
	a) Tetraammoniumcobaltchloride
	b) Tetramminedichlorocobalt (III) chloride
	c) Tetramminecobalt (II) chloride
	d) Dichlorotetraaminecobalt (III) chloride
	[MHT-CET 2021]
111	What is the IUPAC name of $K_3[Al(C_2O_4)_3]$?
	a) Potassium aluminium oxalate
	b) Potassium trioxalato aluminate (II)
	c) Potassium trioxalatoaluminate (III)
	d) Aluminium potassium oxalate
112	Which of the following is the formula of the coordination compound, sodium
	hexafluoroaluminate (III)?
	a) $Na[(AlF_3)_2]$ b) $[NaF_2AlF_3]F$ c) $Na_3[AlF_6]$ d) $Na[AlF_6]$
113	. Identify the formula of a coordinate complex pentaamminecarbonatocobalt (III) chloride.
	a) $[Co_3(NH_3)_5(COO)Cl_3]$ b) $[Co(NH_3)_5CO_2] Cl_3$
	c) $[Co(NH_3)_5CO_3]CI$ d) $[Co(en)_5CO_2]CI_3$
114	What is the IUPAC name of Na_3 [Co(NO_2) ₆]?
	a) Sodiumhexanitrocobaltate (III) b) Sodiumnitrocobalt
	c) Hexanitrosodiumcobaltate d) Hexanitrocobalt (III) sodium
115.	1 [Co(1120) (1113)5] 13 ?
	a) Pentaammineaquacobalt (III) iodide
	b) Pentaammineaquacobalt iodide
	c) Monoaquapenaqmmine triiodo cobaltate
	d) Pentaammineaquaquatriiodo cobaltate
116.	Identify IUPAC name of [Co(NH ₃) ₃ (NO ₃) ₃] from following.
	b) Tripitrotria
20.0	That ocopall (VI)
117.	What is IUPAC name of [Fe(H ₂ O) ₅ , (NCS)] ²⁺ ?
	a) Isotmocyanopentaaquaferrate (II)
	b) Pentag quaisothiocyanatoiron (III) ion
	c) remaaquoisocyanate iron (II) ion
	d) Pentaaquaisothiocyanoferrate ion.
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118.	Identify the formula of Bis (ethylenodian)
	a) [Pt(en) ₂ (SCN) ₂] ²⁺ b) [Pt (en) (SCN) ₂ 1. (IV).
119	c) Pt [(en) ₂ S ₂ CN] 4+ b) [Pt (en) (SCN) ₂] +
	Identify the formula of potassium trioxalatoaluminate (III) a) $K[Al_3(C_2O_4)_3]$ b) $Al[K_3(C_2O_4)_3]$ c) $K[Al_3(C_2O_4)_3]$
	a) $K[Al_3(C_2O_4)_3]$ b) $Al[K_3(C_2O_4)_3]$ c) $K[Al_3(C_2O_4)_3]$
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b) Al[K₃(C₂O₄)₃] c) K (Al(C)