Coordination Compounds

IUPAC name of [Pt(NH₃)₃ Br (NO₂) Cl] Cl isw
 (a) triamminechlorodibromidoplatinum (IV) chloride
 (b) triamminechloridobromidonitrochloride- platinum (IV) chloride

- (b) triamminechioridobromidonitrochioride- platinum (IV) chloride (c) triamminebromidochloridonitroplatinum (IV) chloride
- (d) triamminenitrochlorobromoplatinum (IV) chloride

▼ Answer

Answer: c

2. Trunbull's blue is
(a) Ferricyanide
(b) Ferrous ferricyanide
(c) Ferrous cyanide
(d) Fe₃[Fe(CN)₆]₄

▼ Answer

Answer: b

3. Primary and secondary valency of Pt in $[Pt(en)_2Cl_2]$ are

(a) 4, 4 (b) 4, 6 (c) 6, 4 (d) 2, 6

▼ Answer

Answer: d

4. The complex ions $[Co(NH_3)_5(NO_2)]^{2+}$ and $[Co(NH_3)_5(ONO)]^{2+}$ are called

(a) Ionization isomers

(b) Linkage isomers

- (c) Co-ordination isomers
- (d) Geometrical isomers

▼ Answer

Answer: b

5. Which of the following has square planar structure?
(a) [NiCl₄]²⁻
(b) [Ni(CO)₄]
(c) [Ni(CN)₄]²⁻
(d) None of these

▼ Answer

Answer: c

6. Which of the following has magnesium?
(a) Chlorophll
(b) Haemocyanin
(c) Carbonic anhydrate
(d) Vitamin B₁₂

▼ Answer

Answer: a

7. Mohr's salt is (a) $Fe_2(SO_4) \ 3 \ (NH_4)_2SO_4 \ 6H_2O$ (b) $FeSO_4 \ (NH_4)_2 \ SO_4 \ 6H_2O$ (c) $MgSO_4 \ 7H_2O$ (d) $FeSO_4 \ 7H_2O$

▼ Answer

Answer: b

8. Which of the following shall form an octahedral complex?
(a) d⁴ (low spin)
(b) d⁸ (high spin)
(c) d⁶ (low spin)
(d) All of these

▼ Answer

Answer: b

9. EDTA is used for the estimation of
(a) Na⁺ and K⁺ ions
(b) Cl⁻ and Br⁻ ions
(c) Cu²⁺ and Cs⁺ ions
(d) Ca²⁺ and Mg²⁺ ions

▼ Answer

Answer: d

10. The solution of the complex [Cu(NH₃)₄] SO₄ in water will
(a) give the tests of Cu²⁺ ion
(b) give the tests of NH₃
(c) give the tests of SO₄²⁻ ions
(d) not give the tests of any of the above

▼ Answer

Answer: c