# **Coordination Compounds**

1. IUPAC name of [Pt(NH <sub>3</sub> ) <sub>3</sub> Br (NO <sub>2</sub> ) Cl] Cl isw (a) triamminechlorodibromidoplatinum (IV) chloride	
(b) triamminechloridobromidonitrochloride- platinum (IV) chloride	
(c) triamminebromidochloridonitroplatinum (IV) chloride (d) triamminenitrochlorobromoplatinum (IV) chloride	
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▼ Answer	
Answer: c	
2. Trunbull's blue is	
(a) Ferricyanide	
(b) Ferrous ferricyanide	
(c) Ferrous cyanide	
(d) Fe <sub>3</sub> [Fe(CN) <sub>6</sub> ] <sub>4</sub>	
▼ Answer	
Answer: b	
3. Primary and secondary valency of Pt in [Pt(en) <sub>2</sub> Cl <sub>2</sub> ] 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

(d) None of these

**▼** Answer

5. Which of the following has square planar structure?
(a) [NiCl<sub>4</sub>]<sup>2-</sup>
(b) [Ni(CO)<sub>4</sub>]
(c) [Ni(CN)<sub>4</sub>]<sup>2-</sup>

- 6. Which of the following has magnesium?
- (a) Chlorophll
- (b) Haemocyanin
- (c) Carbonic anhydrate
- (d) Vitamin B<sub>12</sub>

## **▼** Answer

Answer: a

- 7. Mohr's salt is
- (a) Fe<sub>2</sub>(SO<sub>4</sub>) 3 . (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> . 6H<sub>2</sub>O
- (b) FeSO<sub>4</sub> . (NH<sub>4</sub>)<sub>2</sub> . SO<sub>4</sub> . 6H<sub>2</sub>O
- (c) MgSO<sub>4</sub> . 7H<sub>2</sub>O
- (d)  $FeSO_4$  .  $7H_2O$

### **▼** Answer

Answer: b

- 8. Which of the following shall form an octahedral complex?
- (a) d<sup>4</sup> (low spin)
- (b) d<sup>8</sup> (high spin)
- (c) d<sup>6</sup> (low spin)
- (d) All of these

#### **▼** Answer

Answer: b

- 9. EDTA is used for the estimation of
- (a) Na<sup>+</sup> and K<sup>+</sup> ions
- (b) Cl<sup>-</sup> and Br<sup>-</sup> ions
- (c) Cu<sup>2+</sup> and Cs<sup>+</sup> ions
- (d) Ca<sup>2+</sup> and Mg<sup>2+</sup> ions

### **▼** Answer

Answer: d

- 10. The solution of the complex [Cu(NH<sub>3</sub>)<sub>4</sub>] SO<sub>4</sub> in water will
- (a) give the tests of  $Cu^{2+}$  ion
- (b) give the tests of NH<sub>3</sub>
- (c) give the tests of  $SO_4^{2-}$  ions
- (d) not give the tests of any of the above

#### **▼** Answer

Answer: c