

## Coordination Compounds

1. IUPAC name of  $[\text{Pt}(\text{NH}_3)_3 \text{Br} (\text{NO}_2) \text{Cl}] \text{Cl}$  is

- (a) triamminechlorodibromidoplatinum (IV) chloride
- (b) triamminechloridobromidonitrochloride- platinum (IV) chloride
- (c) triamminebromidochloridonitroplatinum (IV) chloride
- (d) triamminenitrochlorobromoplatinum (IV) chloride

▼ **Answer**

Answer: c

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2. Trunbull's blue is

- (a) Ferricyanide
- (b) Ferrous ferricyanide
- (c) Ferrous cyanide
- (d)  $\text{Fe}_3[\text{Fe}(\text{CN})_6]_4$

▼ **Answer**

Answer: b

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3. Primary and secondary valency of Pt in  $[\text{Pt}(\text{en})_2\text{Cl}_2]$  are

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

▼ **Answer**

Answer: d

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4. The complex ions  $[\text{Co}(\text{NH}_3)_5(\text{NO}_2)]^{2+}$  and  $[\text{Co}(\text{NH}_3)_5(\text{ONO})]^{2+}$  are called

- (a) Ionization isomers
- (b) Linkage isomers
- (c) Co-ordination isomers
- (d) Geometrical isomers

▼ **Answer**

Answer: b

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5. Which of the following has square planar structure?

- (a)  $[\text{NiCl}_4]^{2-}$
- (b)  $[\text{Ni}(\text{CO})_4]$
- (c)  $[\text{Ni}(\text{CN})_4]^{2-}$
- (d) None of these

▼ **Answer**

Answer: c



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6. Which of the following has magnesium?

- (a) Chlorophyll
- (b) Haemocyanin
- (c) Carbonic anhydrate
- (d) Vitamin B<sub>12</sub>

▼ **Answer**

Answer: a

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7. Mohr's salt is

- (a)  $\text{Fe}_2(\text{SO}_4)_3 \cdot (\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$
- (b)  $\text{FeSO}_4 \cdot (\text{NH}_4)_2 \cdot \text{SO}_4 \cdot 6\text{H}_2\text{O}$
- (c)  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
- (d)  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

▼ **Answer**

Answer: b

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8. Which of the following shall form an octahedral complex?

- (a)  $d^4$  (low spin)
- (b)  $d^8$  (high spin)
- (c)  $d^6$  (low spin)
- (d) All of these

▼ **Answer**

Answer: b

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9. EDTA is used for the estimation of

- (a)  $\text{Na}^+$  and  $\text{K}^+$  ions
- (b)  $\text{Cl}^-$  and  $\text{Br}^-$  ions
- (c)  $\text{Cu}^{2+}$  and  $\text{Cs}^+$  ions
- (d)  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  ions

▼ **Answer**

Answer: d

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10. The solution of the complex  $[\text{Cu}(\text{NH}_3)_4] \text{SO}_4$  in water will

- (a) give the tests of  $\text{Cu}^{2+}$  ion
- (b) give the tests of  $\text{NH}_3$
- (c) give the tests of  $\text{SO}_4^{2-}$  ions
- (d) not give the tests of any of the above

▼ **Answer**

Answer: c

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