



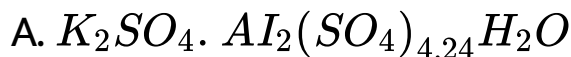
CHEMISTRY

NCERT - NCERT CHEMISTRY(GUJRATI)

COORDINATION COMPOUNDS AND BIO-COORDINATION COMPOUNDS

Self Evaluation A Choose The Correct Answer

1. Which is a double salt



B. NaCl

C. $K_4[Fe(CN)_6]$

D. KCl

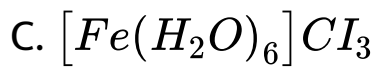
Answer:

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2. An example of a complex compound having coordination number 4.

A. $K_4[Fe(CN)_6]$

B. $[Co(en)_4]Cl_3$



Answer:



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3. The geometry of $[Cu(NH_3)_4]^{2+}$ complex ion

A. Linear

B. Tetrahedral

C. Square planar

D. Angular

Answer:



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4. An example of a chelating ligand is



B. Chloro

C. Bromo

D. en

Answer:



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5. The geometry of complex ion $[Fe(CN)_6]^{4-}$ is

A. tetrahedral

B. square planar

C. Octahedral

D. triangular

Answer:



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6. The oxidation number of Nickel in the complex ion, $[NiCl_4]^{2-}$ is

A. + 1

B. - 1

C. + 2

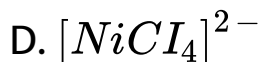
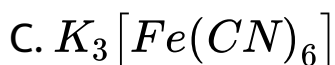
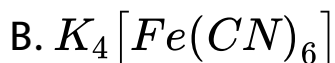
D. - 2

Answer: + 2



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7. Which is not an anionic complex?



Answer: $[Cu(NH_3)_4]Cl_2$



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8. The geometry of $[Ni(CN)_4]^{2-}$ is

A. Tetrahedral

B. Square planar

C. Triangular

D. Octahedral

Answer:



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9. An example of an ambidentate ligand is

A. CN^-

B. CI^-



Answer: CN^-



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10. $[FeF_6]^{4-}$ is paramagnetic because

A. F^- is a weaker ligand

B. F^- is a strong ligand

C. F^- is a flexidentate ligand

D. F^- is a chelating ligand

Answer: F^- is a weaker ligand



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11. In $[Fe^{II}(CN)_6]^{4-}$, the central metal ion is

A. Fe

B. Fe^{2+}

C. Fe^{+3}

D. CN^-

Answer: Fe^{2+}



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12. The coordination number of Ni^{II} in $[Ni(CN)_4]^{2-}$ is

A. 2

B. 4

C. 5

D. 6

Answer: 2



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13. The name of $[Pt^{IV}(NH_3)_2Cl_2]^{2+}$ is

- A. Diamminedichloroplatinum(IV) ion
- B. Diamminedichloroplanitate(IV)
- C. Diamminedichloroplatinum
- D. Dichlorodiammineplatinum(IV) ion

Answer: Diamminedichloroplatinum(IV) ion

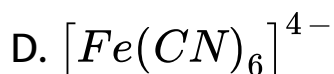


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14. For a compound

$K_4[Fe(CN)_6] \rightarrow 4K^+ + [Fe(CN)_6]^{4-}$, the

complex ion is



Answer: $[Fe(CN)_6]^{4-}$



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15. A metal ion from the first transition series forms an octahedral complex with magnetic moment of

4.9 BM and another octahedral complex which is diamagnetic. The metal ion is



Answer:



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16. Paramagnetic moment is expressed in

A. Debye unit

B. K Joules

C. BM

D. ergs

Answer: BM



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17. The type of isomerism found in the complexes



A. Hydrate isomerism

B. Coordination isomerism

C. Linkage isomerism

D. Ionisation

Answer: Ionisation



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18. Valence bond theory does not explain the property of complex compound

A. geometry

B. magnetic

C. nature of ligand

D. colour

Answer: nature of ligand



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