

## PPSC Chemistry Part III Inorganic Chemistry Online Test

Sr	Quactions	Answers Choice
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1	Strong field ligands such as CN	A. Usually produce high spin complexes and small crystal field splitting B. Usually produce low spin complexes and small crystal field splitting C. Usually produce low spin complexes and high crystal field splitting D. Cannot form low spin complexes
2	Consider to violet colored compund.[Cr(OH)2)6 Cl3 and the yellow compound. [Cr(NH3)6]C;2 which of the following statements is false.	A. Both chromium metal ions are paramagnetic with 3 unpaired electrons.  B. [Cr(NH3)6)3+ is calculated directly form the energy of yellow light  C. For [Cr(OH)2)6]3+ is less than for [Cr(NH3)6]3+  D. The two complexes absorb their complementary colors.
3	How many unpaired electron are there in a strong field iron (II) octahederal compled.	A. 0 B. 1 C. 2 D. 4
4	Which one of the following statements if false with respect to CFT.	A. In an octahederal crystal field, the d electron on a metal ion occupy the ex of orbitals before they occupy the t98 not of orbitals.  B. Diamagnetic metal ions cannot have an odd number of electrons C. Low spin complexes can be paramagnetic D. Low spin complexes contain strong field ligands.
5	A molecule the cannot be susperimposed on its mirror image is said to exhibit which of the following.	A. Geometrical isomerism     B. Optical isomerism     C. Linkage isomerism     D. Reactive isomerism
6	What is the oxidation number of the central meal atom in the coordination compound. [Pt(NI-#)#Cl]Cl	A1 B. 0 C. +2 D. +3
7	Select the correct IUPAC nae for [Co(NH3)6 ]2+	A. Hexammoniacobaltate (II) ion B. Hexaamminecobaltate (II) ion C. Hexammoniacobalt (II) ion D. Hexaamminecobalt (II) ion
8	Select the correct IUPAC name for [FeF4(OH)2]-	A. Diaquatrafluoriron (III) ion B. Diaquateratrafluoriferrate (III) ion C. Diaquatertrafluoroiron (I) D. None of these
9	Consider the coordination compound K2[Cu(CN)4] A coordinate covalent bond exists between	A. K+ and CN- B. Cu2+ and CN- C. K_ and [Cu(CN)4]2+ D. C and N in Cn
10	Consider the coordination compound Na2[Pt(CN)4] the Lewis and is	A. [Pr(CN)4]2 B. Na+ C. Pt D. Pt2+
11	In coordination chemistry the donor atom of a ligand is.	A. A Lewis acid B. The counter ion C. The central metal atom D. The atom in the legend that shares an electron pair with the metal
12	The sphere is enclosed in brackets in formulas for complex species, and it	A. Ligand B. Donor

	includes the central metal ion plus the coordinated group	C. Coordination D. Oxiation
13	Which of the following process is involved in the purification of crude metals.	<ul><li>A. Liquation process</li><li>B. Oxidation process</li><li>C. Distillation process</li><li>D. Electro refining</li></ul>
14	The process in which ore is heated generally in the presence of air, at temperature below their melting points is called.	A. Calcination B. Roasting C. Fourth floatation D. besemerization
15	The process in which ore is heated generally in the absence of air, to expel water from a hydrated oxide at temperature below their melting points is called.	A. calcination B. Roasting C. Froth floatation D. Bessemerization
16	The matrix is usually in the form of.	A. Sand B. Limestone C. Rocks D. All
17	Which of the following method is used for the coventrating of ores.	A. Gravity separation     B. Magnetic concentration     C. Fourth floatation     D. Electrostatic concentration     E. All
18	The process of extracting a metal in pure form its ores is known as.	A. Crushing B. Grinding C. Dressing D. Metallurgy
19	Which of the following is not a property of Cr.	A. it is brilliant silvery metal B. it is malleable C. It can take very high polish D. Its surface is tarnished easily
20	Ferrochrum contains Cr up to	A. 60-70% B. 70-80% C. 80-90% D. 40-50%