ECAT Chemistry Chapter 17 Transition Elements Online Test

Sr	Questions	Answers Choice
1	Which metal is used for catalytic hydrogenation of oils	A. Cu B. Pt C. Ni D. Pd
2	The amount of Ni in stainless steel is	A. 3% B. 4% C. 5% D. 8%
3	Interstitial compounds have	A. Half formula B. Fixed formula C. Indefinite formula D. None
4	Bronze is an alloy of Cu and	A. Zn B. As C. Sb D. Sn
5	The color of Cr^{3+}ion is	A. Violet B. Blue C. Pink D. Green
6	Bell metal is an alloy of Sn and	A. Copper B. Iron C. Zinc D. Magnesium
7	$[Zn(NH_3)_4]^{3+}$possess geometry	A. Square plannar B. Hexagonal C. Tetrahedral D. None of these
8	Most transition elements show	A. Diamagnetic behavior B. Ferromagnetic behavior C. Paramagnetic behavior D. None of these
9	Out of 110 known elements, transition elements are	A. 40 B. 60 C. 50 D. 80
10	The Mn^{3+}has _____ color	A. Violet B. Green C. Red/brown D. No color
11	$[Cu[NH_3)_4]^{+2}$will form _____ structure	A. Square planar B. Tetrahedral C. Octahedral D. Trigonal bipyramidal
12	The less reactivity of transition metal is due to	A. High heats of sublimation B. High ionization energies C. Low heats of salvation D. All these
13	$Cu^{2+}$with d^9electronic configuration appears	A. Yellow B. Pink C. Blue D. Green
14	The colour of the transition metal compounds is due to	A. p-d transition B. d-d transition C. s-p transition D. None of these
15	Transition metals form complexes due to the participation of partially filled	A. f-orbitals B. d-orbitals C. s-orbitals D. p-orbitals

16	The total number of d-bock transition element is	A. 10 B. 14 C. 40 D. 30
17	Coordination number of Pt in $[PtCl(NO_2)(NH_3)_4]^{2+}$is	A. 2- B. 4 C. 1 D. 6
18	The colour of transition metal complexes is due to	A. d-d transitions of electrons B. Para magnetic nature of transition elements C. Ionization D. Loss of s-electrons
19	The percentage of carbon in different types of iron products is in the order of	A. Cast iron > wrought iron > steel B. Wrought iron > steel > cast iron C. Cast iron > steel > wrought iron D. Cast iron = steel > wrought iron
20	Which is the formula of tetra-ammine chloro-nitro platinum (IV) sulphate	A. [Pt(NH₃)₄(NO₂)] SO₄ B. [Pt NO₂Cl(NH₃)₄] SO₄ C. [Pt Cl(NO₂)(NH₃)₄] SO₄ D. [Pt (NH₃)₄(NO₂) Cl] SO₄
21	Group VIB of transition elements contains	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
22	Which is used to identify Cu^{2+}ions	A. Nitric acid B. Sulfuric acid C. NaOH D. HCl
23	f-Block elements are also called	A. Non typical transition elements B. Outer transition elements C. Normal transition elements D. Inner transition elements
24	Which of the following is a typical transition metal	A. Sc B. Y C. Ra D. Co
25	Which of the following is a non-typical transition elements	A. Cr B. Mn C. Zn D. Fe
26	Which is not a bidentate ligand	A.
27	Steel may be manufacture by two processes which two are correct	A. Open hearth process and besemer process B. Open hearth process and Haber process C. Bassemer process and Haber process D. Contact process and Haber process
28	The geometrical shape of a transition complexion is related to the state of hybridizing of the central atom. What is trigonal bipyramidal	A. sp³ B. dsp² C. dsp³ D. d²sp³
29	Potassium hexacyanoferrate (II) has the formula	A. K₄[Fe(CN)₆] B. K₃[Fe(CN)₆] C. K₂[Fe(CN)₆] D. K [Fe(CN)₆]
30	A transition metal complex can be recognized by various terms. Which is not the proper term	A. Central metal ion B. Coordination number C. Ligand D. Geometry of complex