

## ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	6-d series is in the period :	A. 4th B. 5th C. 6th D. 7th
2	Series starting from $^{57}\text{La}$ , $^{42}\text{Hf}$ - $^{80}\text{Hg}$ is in the period:	A. 4th B. 5th C. 6th D. 7th
3	5-d series is in the period :	A. 4th B. 5th C. 6th D. 7th
4	4-d series is in the period:	A. 4th B. 5th C. 6th D. 7th
5	Series starting from $^{39}\text{Y}$ to $^{48}\text{Cd}$ is in period:	A. 4th B. 5th C. 6th D. 7th
6	Which period starts from $^{11}\text{Sc}$ to $^{30}\text{Zn}$ ?	A. First Period B. Second Period C. Third Period D. 4th Period
7	3-d series elements are present in:	A. First period B. Second Period C. Third period D. 4th period
8	Oxalic acid oxidizes to:	A. CO B. $\text{CO}_2$ C. Oxalates D. None of these
9	Property of transition element is :	A. Low m.p and b.p B. Paramagnetism C. Oxidation state D. Low binding energies
10	Content of carbon in steel is:	A. 0.12 to 0.25% B. 0.25% to 2.5% C. 3.0 to 3.5% D. 4.0 to 4.5%
11	Maximum variable oxidation state is of:	A. $\text{Mn}^{+2}$ B. $\text{Fe}^{+3}$ C. $\text{Cr}^{+1}$ D. a and b
12	Solubility of $\text{KMnO}_4$ at higher temperature is:	A. 5% B. 7% C. 15% D. 25%
13	During oxidation in $\text{K}_2\text{Cr}_2\text{O}_7$ , Cr VI changes to :	A. I B. II C. III D. IV
14	Rusting can be avoided by :	A. Making alloys B. Tin or Zinc plating C. Use of enamel D. All of these
15	Coordination sphere may be:	A. Cationic B. Anionic C. Neutral D. All above

16	$[\text{Ti}(\text{H}_2\text{O})_6]^{+3}$ ion absorbs colour:	A. Blue B. Yellow C. Green D. Red
17	Which is non typical transition element :	A. Ni B. Co C. Y D. Fe
18	The total number of transition elements is:	A. 10 B. 14 C. 40 D. 50
19	Coordination number of Pt in $[\text{PtCl}(\text{NO}_2)(\text{NH}_3)_4]^{2-}$	A. 2 B. 4 C. 1 D. 6
20	The colour of transition metal complexes is due to:	A. d-d transitions of electrons B. Paramagnetic nature of transition C. Ionization D. Loss of s-electrons
21	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
22	Which is the formula of tetra-ammine chloronitro platinum (VI) sulphate?	A. $[\text{Pt}(\text{NH}_3)_3(\text{NO})\text{SO}_4]$ B. $[\text{Pt}(\text{NO})_2\text{Cl}(\text{NH}_3)_3]\text{SO}_4$ C. $[\text{PtCl}(\text{NO})_2(\text{NH}_3)_4]\text{SO}_4$ D. $[\text{Pt}(\text{NH}_3)_3(\text{NO})\text{Cl}]\text{SO}_4$
23	Group VI-B of transition elements contains:	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
24	Which of the following is a typical transition metal?	A. Sc B. Y C. Ra D. Co
25	Which of the following is non-typical transition element?	A. Cr B. Mn C. Zn D. Fe
26	Hybridized in oxygen is:	A. sp B. $\text{sp}^2$ C. $\text{sp}^3$ D. $\text{dsp}^3$
27	Hybridized in carbon is:	A. sp B. $\text{sp}^2$ C. $\text{sp}^3$ D. $\text{d}^2\text{sp}^3$
28	Dipole moment of CO molecule is:	A. 0.0 B. 1.112 D C. 0.112 D D. 2.112 D
29	A compound used as eye wash:	A. Borax B. Boric acid C. Metabolic acid D. Pyroboric acid
30	Corrundam is ore of:	A. Li B. Be C. B D. Al