

ECAT Chemistry Chapter 17 Transition Elements Online Test

Sr	Questions	Answers Choice
1	Transition elements are called so because:	A. Form interstitial compounds B. have high m.p C. In between 's' and 'p' block elements D. All of these
2	f-block elements are called :	A. Alkali metal B. Alkaline earth metals C. Transition elements D. Electron deficient elements
3	d-block elements are also called :	A. alkali metal B. Alkaline earth metals C. Transition elements D. Electron deficient elements
4	6-d series is in the period :	A. 4th B. 5th C. 6th D. 7th
5	Series starting from ${}^{57}\text{La}$, ${}^{42}\text{Hf}$ - ${}^{80}\text{Hg}$ is in the period:	A. 4th B. 5th C. 6th D. 7th
6	5-d series is in the period :	A. 4th B. 5th C. 6th D. 7th
7	4-d series is in the period:	A. 4th B. 5th C. 6th D. 7th
8	Series starting from ${}^{39}\text{Y}$ to ${}^{48}\text{Cd}$ is in period:	A. 4th B. 5th C. 6th D. 7th
9	Which period starts from ${}_{11}\text{Sc}$ to ${}_{30}\text{Zn}$?	A. First Period B. Second Period C. Third Period D. 4th Period
10	3-d series elements are present in:	A. First period B. Second Period C. Third period D. 4th period
11	Oxalic acid oxidizes to:	A. CO B. CO_2 C. Oxalates D. None of these
12	Property of transition element is :	A. Low m.p and b.p B. Paramagnetism C. Oxidation state D. Low binding energies
13	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%
14	Maximum variable oxidation state is of:	A. Mn^{+2} B. Fe^{+3} C. Cr^{+1} D. a and b
15	Solubility of KMnO_4 at higher temperature is:	A. 5% B. 7% C. 15% D. 25%

16	During oxidation in $\text{K}_2\text{Cr}_2\text{O}_7$, Cr VI changes to :	A. I B. II C. III D. IV
17	Rusting can be avoided by :	A. Making alloys B. Tin or Zinc plating C. Use of enamel D. All of these
18	Coordination sphere may be:	A. Cationic B. Anionic C. Neutral D. All above
19	$[\text{Ti}(\text{H}_2\text{O})_6]^{+3}$ ion absorbs colour:	A. Blue B. Yellow C. Green D. Red
20	Which is non typical transition element :	A. Ni B. Co C. Y D. Fe
21	The total number of transition elements is:	A. 10 B. 14 C. 40 D. 50
22	Coordination number of Pt in $[\text{PtCl}(\text{NO}_2)(\text{NH}_3)_4]^{2-}$	A. 2 B. 4 C. 1 D. 6
23	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
24	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
25	Which is the formula of tetra-ammine chloronitro platinum (VI) sulphate?	A. $[\text{Pt}(\text{NH}_3)_3(\text{NO})\text{SO}_4]B. [\text{Pt}(\text{NO})_2\text{Cl}(\text{NH}_3)_3]\text{SO}_4C. [\text{PtCl}(\text{NO})_2(\text{NH}_3)_3]\text{SO}_4D. [\text{Pt}(\text{NH}_3)_3(\text{NO})\text{Cl}]\text{SO}_4$
26	Group VI-B of transition elements contains:	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
27	Which of the following is a typical transition metal?	A. Sc B. Y C. Ra D. Co
28	Which of the following is non-typical transition element?	A. Cr B. Mn C. Zn D. Fe
29	AgCl is soluble in	A. Aqua regia B. H_2SO_4 C. HCl D. NH_3
30	Which one of the following metal ions is colourless?	A. V^{2+} B. Cr^{3+} C. Zn^{2+} D. Ti^{3+}