

ECAT Chemistry Chapter 17 Transition Elements

Sr	Questions	Answers Choice
1	Series starting from ^{39}Y to ^{48}Cd is in period:	A. 4th B. 5th C. 6th D. 7th
2	Group VI-B of transition elements contains	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
3	Which of the following is a typical transition metal?	A. Sc B. Y C. Ra D. Co
4	Group VI-B of transition elements contains:	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
5	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%
6	Which of the following is obtained when Fe reacts with dil. HNO_3 ?	A. N_2O B. NO C. NO_2 D. None of these
7	Which of the following is not correct about transition metals?	A. Their melting and boiling points are high B. Their compounds are generally coloured C. They can form ionic or covalent compounds D. They do not exhibit variable valency
8	Transition metals mostly are	A. Diamagnetic B. Paramagnetic C. Neither diamagnetic nor paramagnetic D. Both diamagnetic and paramagnetic
9	Which of the following d-block elements can show the highest oxidation number in its compounds	A. Chromium B. Copper C. Nickel D. Manganese
10	Which element belongs to 5d series	A. V B. Nb C. Pd D. Hf
11	Which of the following acts as a ligand	A. NH_3 B. NH_2^- -- CH_2^- -- CH_2^- -- NH_2^- C. $\text{C}_2\text{O}_4^{2-}$ D. All these
12	High purity copper metal is obtained by	A. Carbon reduction B. Hydrogen reduction C. Electrolytic reduction D. Thermite reduction
13	Which of the following has the maximum number of unpaired d-electrons?	A. Zn B. Fe^{2+} C. Ni^{3+} D. Cu^+
14	Addition of iron filings to CuSO_4 solution caused precipitation of Cu owing to the	A. Reduction of Cu^{2+} B. Oxidation of Cu^{2+} C. Reduction of Fe D. Reduction of Fe^{3+}
15	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

16 $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ is used to prepare

- A. Transition complex
- B. Fehling's 'A' sol
- C. Fehling's 'B' sol
- D. Fehling's sol

17 Potassium hexacyanoferrate (II) has the formula

- A. $\text{K}_4[\text{Fe}(\text{CN})_6]$
- B. $\text{K}_3[\text{Fe}(\text{CN})_6]$
- C. $\text{K}_2[\text{Fe}(\text{CN})_6]$
- D. $\text{K}[\text{Fe}(\text{CN})_6]$

18 Potassium chromate has formula

- A. KClO_3
- B. K_2CO_3
- C. K_2CrO_4
- D. $\text{K}_2\text{Cr}_2\text{O}_7$

19 Bessemer converter is used in the manufacture of

- A. Pig iron
- B. Steel
- C. Wrought iron
- D. Cast iron

20 Which of the following is a non-typical transition elements

- A. Cr
- B. Mn
- C. Zn
- D. Fe