ECAT Chemistry Chapter 17 Transition Elements

Sr	Questions	Answers Choice
1	Property of transition element is :	A. Low m.p and b.p B. Parramagnetism C. Oxidation state D. Low binding energies
2	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
3	Which of the following is not an element?	A. Graphite B. Diamond C. 22-Carat gold D. Rhombic sulphur
4	Which of the following compounds gives red precipitate with $AgNO_3$?	A. KI B. K₂CrO₄ C. NaBr D. NaNO₃
5	5-d series is in the period :	A. 4th B. 5th C. 6th D. 7th
6	Bell metal is an alloy of Sn and	A. Copper B. Iron C. Zinc D. Magnesium
7	Which one of the following has highest density	A. Zn B. Os C. Ni D. Cu
8	The lanthanides contraction is responsible for the fact that	A. Zr and Y have about the same radius B. Zr and Nb have similar oxidsation state C. Zr and Hf have about the same radius D. Zr and Zn have the same oxidation satete
9	In an ooctahedral crystal field splitting, the number of orbitals pushed down in energy is	A. 3 B. 2 C. 5 D. Zero
10	f-block elements are called :	A. Alkali metal B. Alkakline earth metals C. Transition elements D. Electron deficient elements
11	The geometry of $[Co(NH_3)_6]^{3+}$is	A. Tetrahedral B. Square planar C. Octahedral D. None of these
12	High purity copper metal is obtained by	A. Carbon reduction B. Hydrogen reduction C. Electrolytic reduction D. Thermite reduction
13	The Mn^{3+}has _____ color	A. Violet B. Green C. Red/brown D. No color
14	Potassium chromate has formula	A. KClO₃ B. K₂CO₃ C. K₂CrO₄ D. K₂Cr₂O₇
15	Sodium thisoulophate is used in photography because of its	A. Oxidizing behaviour B. Reducing behaviour C. Complexing behaviour

		D. Photochemical behaviour
16	Group VIB of transition elements contains	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
17	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
18	Which is the correct electronic configuration of Cr - 24	A. 1s², 2s², 2p⁶, 3s², 3p⁶, 3d⁴, 4s² B. 1s², 2s², 2p⁶, 3s², 3p⁶, 3d³, 4s², 4p¹ C. 1s², 2s², 2p⁶, 3s², 3p⁶, 3d⁵, 4s¹ D. 1s², 2s², 2p⁶, 3s², 3p⁶, 3d⁵, 4p¹
19	The total number of d-bock transition element is	A. 10 B. 14 C. 40 D. 30
20	$[Ti(H_2O)_6]^{+3}$ion absorbs colour:	A. Blue B. Yellow C. Green D. Red