

## MDCAT Chemistry Chapter 11 S and P Block Elements Online Test

Sr	Questions	Answers Choice
1	A transition element X has a configuration [Ar] 4s3dd in its +3 oxidation state. Its atomic number is	A. 25 B. 26 C. 22 D. 19
2	Zinc does not show variable oxidation state, because	A. Its d-subshell is incomplete B. Its d-subshell is complete C. It is relatively soft metal D. It has two electrons in outermost shell
3	All 3d series elements show an oxidation state of oxidation state	A. +1 B. +2 C. +3 D. Zero
4	When light is exposed to a typical transition element, then electrons jumps from low orbitals to higher orbitals in	A. f-orbitals B. s-orbitals C. p-orbitals D. d-orbitals
5	Highest oxidation state of the transition elements is	A. +8 B. +7 C. +5 D. +1
6	Electrons in 5d energy level are filled up in case of	A. Lanthanides B. Transition metals C. Actinides D. Rare gases
7	Which ion has maximum number of unpaired electrons in 3d subshell and shows maximum paramagnetic behavior?	A. Cr+3 B. Ni+2 C. Co+2 D. Fe+3
8	Oxidation state of Mn' in KMnO4. K2MnO4, MnO2 and MnSO4 is in the order	A. +7, +6, +2, +4 B. +6, +7, +2, +4 C. +7, +6, +4, +2 D. +4, +6, +7, +2
9	In [Ti (H2O)]3+ which colour is transmitted	A. Yellow B. Blue and red C. Blue and yellow D. red and yellow
10	Which of the following shows group IIIB	A. Zn, Cd, Hg B. Cu, Ag, Au C. Sc, Y, La D. Ni, Pd, Pt
11	What is the sequence of electron take up and removal from 4s orbital a transition metal in 3d series?	A. Enters first, leaves after 3d electrons removal B. Enters after 3d electrons, leaves after 3d electrons C. Enters after 3d electrons, leaves first D. Enters first and leaves first
12	Group VIB of transition elements contains	A. Zn, Cd, Hg B. Cr, Mo, W C. Fe, Ru, Os D. Mn, Tc, Re
13	The oxidation state of transition elements is usually	A. Variable B. Single C. Constant D. Infinite
14	Which of the following pair has the same no. of electrons in d- subshell	A. Sc+3, Ti+3 B. Mn+2, Fe+3 C. Ti+3, V+3 D. Cr+3, Co+2

15	Ti <sup>3+</sup> shows minimum absorption (maximum transmittance) at-----and-----wavelength	A. Yellow, Green B. Red, Yellow C. Blue, Green D. Red, Blue
16	D-block elements are also called	A. Non-typical transition element B. Outer transition elements C. Abnormal transition elements D. Inner transition
17	TiCl <sub>4</sub> is used as catalyst for manufacture of	A. Sulphuric acid B. Plastics C. Ethanol D. Tetraethyl lead
18	Paramagnetic behaviour is caused by the presence of	A. Unpaired electrons B. Paired electrons C. Paired protons D. Paired electrons in an atom, molecule or ion
19	Which of the following are responsible for the colour developed in transition elements compounds?	A. s-orbitals B. p-orbitals C. d-orbitals D. f-orbitals
20	Which of the followings has electronic configuration of Ar in +3 oxidation state	A. Sc B. Mn C. Ti D. Zn