

PPSC Chemistry Part III Inorganic Chemistry Online Test

Sr	Questions	Answers Choice
1	Pick out incorrect statement about K2Cr2O7	A. It oxidizes acidified solution H2SO4 to S B. It oxidizes KI to I2 C. It oxidizes HCI to CI2 D. It gives oxygen, when treated with cold conc. H2SO4
2	Pick out the incorrect statement about K2Cr2O7	A. It is thermally stable B. It dissolves in alkali to form chromate C. It oxidizes acidified FeSO4 solution to Fe2(SO4)3 D. It is used as cleansing agent for glassware. etc. When mixed with cold con. H2SO4
3	The yellow colour of chromates changes to orange red on acidification, due to the formation of.	A. Cr3+ B. Cr2O3 C. Cr2O7 ²⁻ D. Cro3
4	Which one of the following oxides is basic.	A. MnO B. Mn2O3 C. MnO2 D. Mn2O7
5	The first ionization energies of the elements of the first transition series. (Ti Cu)	A. Increases as the atomic number increases B. decreases as the atomic number increases C. Do not show any change as the addition of electrons takes place in the inner (n-1) d -orbitals. D. Increases from Ti to Mn and then decreases from Mn to Cu
6	Which one of the following statements is not true.	A. Transition metals form alloys B. Transition metals form complexes C. Zn, Cd and Hg are transition metals D. K2[PtCl6] is a well known compound but corresponding nikel compound is not knonwn
7	Pick out the incorrect statements for transition metals.	A. They have low melting and boiling points B. 5d-element have higher energies than 3d or 4 d elements C. Zr and Hf have almost identical atomic and ionic radii D. They form interstitial compounds.
8	The atomic number of Potassium is 19 and that of manganese is 25. Although the coloured of MnO4 is dark violet yet the K+ is colourles This is due to the fact that	A. Mn is a transition element while K+ is not B. [MnO4]is negatively charged while K+ has a positive charge C. The effective atomicnumebr of Mn is [MnO4] is 26 while for K+ the atomic number is 18 D. The Mn in a high positive oxidation state allows charge transfer transitions
9	Pick out the incorrect statement for transition metals.	A. Cu+ is not a transition metal ion B. Transition metals do not exhibit variable oxidation states C. Transition metal ions are coloured D. Transition metals and majority of their compounds are paramagnetic
10	The electronic configuration of chromium is 4s1, 3d5, The elements tungsten (W) belongs to the same group and has atomic number 74. The configuration of its valence shell is.	A. 5s1, 4d5 B. 6s1, 5d5 C. 6s1, 5d6 D. 6s1, 5d4
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11	Which of the following has maximum number of unpaired electrons.	A. Fe3+ B. Fe2+ C. Co2+ D. CO3+
12	Of the molecules, SF4 Xe F4 and CF4 which have square planar geometry.	A. SF4 , Xe f4 and CF4 B. SF4 only C. CF4 only D. XeF4 only
13	Which of the following is not known.	A. KrF6 B. XeF6 C. XeO3 D. KrF2
14	Xenon reacts best with	A. The most electropositive elements B. The most electronegative elements C. The hydrogen halides D. Non metals
15	Which one of the following is not correct.	A. Ar is used in electric bulbs B. Kr is obtained during radioactive decay C. Boiling point of H2 is lowest among all noble gases. D. Xe forms Xe OF4
16	Which one of the following is not formed when an electric discharge passes through helium.	A. HeH+ B. HeH2+ C. He2+ D. He2-
17	The state of hybridization of Xe in Xe F6 are	A. sp2 B. sp3 C. sp3 d D. dsp3
18	The geometry of Xe F2 is	A. Triangular planar B. Square planar C. Linear D. Trigonal bipyramidal
19	Xe reacts directly with	A. O2 B. Cl2 C. F2 D. Br2
20	The noble gases which does not I do not form any clathrates is.	A. He B. Ne C. Argpm
		D. Both He and Ne