

## PPSC Chemistry Part III Inorganic Chemistry Online Test

Sr	Questions	Answers Choice
1	Cryolite is used in the electrolytic extraction of aluminium to.	A. Obtain more aluminium B. Reduce alumina C. Protective electrodes D. Dissolve bauxite and increase the electrical conductivity
2	Ground state electronic configuration of valence shell in $N_2$ molecule is written as $(\sigma 2s)^2, (\sigma^* 2s)^2, (\pi sp)^4, (\sigma 2p)^2$ . Hence, the bond order of $N_2$ molecule is.	A. 1 B. 2 C. 3 D. 0
3	Molecule of oxygen is	A. Diamagnetic B. Paramagnetic C. Both A and B D. None of above
4	Iodine is used as	A. Tincture of iodine B. Iodex and antiseptic C. Treatment of goiter D. All above
5	The polarity of bonds can lead to polarity of molecules and affect	A. Melting point B. Boiling point C. Solubility D. All of above
6	Stainless steel contains	A. Fe+Cr+Ni B. Fe+Ni+Cu C. Fe + Cr+ Cu D. Cu + C + Ni
7	Formula of orthophosphoric acid.	A. $H_2PO_4$ B. $H_3PO_3$ C. $H_3PO_2$ D. $H_4P_2O_5$
8	According to Fajns rules, which one of following results in increased ionic nature of the covalent bond.	A. Larger cation and smaller charges on anion B. Larger cation and larger charge on anion C. Smaller cation and smaller charge on anion D. Smaller cation and larger charge on anion
9	Which pair of species can undergo chemical reaction with each other.	A. $CO^+$ NO B. LiH and $H_2O$ C. $CO_2$ and HCl D. $CaH_2$ and Si H <sub>4</sub>
10	How many unpaired electron are there in a strong field iron (II) octahedral complex.	A. 0 B. 1 C. 2 D. 4
11	The commonly used catalyst in the manufacture of $H_2SO_4$	A. $Fe_2O_3$ with a little CuO B. $V_2O_5$ C. Platinized asbestos and $MgSO_4$ D. All above
12	Which of the following carbides reacts with $H_2O$ to form propane.	A. $Al_4C_3$ B. $CaC_2$ C. $SiC_2$ D. SiC
13	$BCl_3$ is a planar molecule because B atom is.	A. $sp^2$ hybridized B. $sp^3$ hybridized C. sp hybridized D. $sp^3 d$ hybridized
14	Which of the following compounds is electrovalent in nature.	A. $SO_2$ B. ICl C. KBr D. $CHI_3$

15	Ferrochrom contains Cr up to	A. 60-70% B. 70-80% C. 80-90% D. 40-50%
16	All the member of group III A are metals except.	A. B B. Al C. Ga D. In
17	Which is not an ore of aluminium.	A. Bauxite B. Cryolite C. Monazite D. Corundum
18	Which of the following molecule contains two dative bonds according to Lewis structure.	A. NH <sub>3</sub> B. SO <sub>3</sub> C. PCl <sub>5</sub> D. BF <sub>3</sub>
19	The major role of Fluorspar which is added in small quantities in the electrolytic reduction alumina dissolved in fused cryolite is.	A. As a catalyst B. To make the fused mixture very conducting C. To lower the temperature of the melt D. To decreases the rate of oxidation of carbon at the anode
20	Which of the following has the maximum tendency to form complexes.	A. K B. Na C. Rb D. Li