

PPSC Chemistry Part III Inorganic Chemistry Online Test

Sr	Questions	Answers Choice
1	The formula of Tetraboric acid is.	A. H_2BO_3 B. HBO_2 C. $\text{H}_2\text{B}_4\text{O}_7$ D. $\text{H}_6\text{B}_4\text{O}_9$
2	Considering the element B,C, N, G and Si, the correct order of their non- metallic character is.	A. B > C > Si > N > F B. Si > C > B > N > F C. F > N > C > B > Si D. F > N > C > > Si > B
3	Of the following an amphoteric hydroxide is.	A. $\text{Ca}(\text{OH})_2$ B. NaOH C. $\text{Be}(\text{OH})_2$ D. Li OH
4	What is the following is incorrect.	A. Water is more polar than H_2S B. H_2O_2 is a planar molecule C. Heavy water is produced by the exhaustive electrolysis of water made acidic D. H_2O_2 act both as oxidising as well as reducing agent in acidic medium
5	An explosive	A. Nitroglycerine B. Trinitrotoluene C. Fluorine perchlorate D. All above
6	In coordination chemistry the donor atom of a ligand is.	A. A Lewis acid B. The counter ion C. The central metal atom D. The atom in the legend that shares an electron pair with the metal
7	Which of the following alloys contains Cu and Zn	A. Bronze B. Brass C. Gun metal D. Type metal
8	Neon is used in neon signs for advertising purpose because.	A. Neon lights are visible from long distance B. Neon light are visible though fog & mist C. Both A and B D. None of the above
9	Which one of the following sets of elements has the strongest tendency to form positive ions in gaseous state.	A. Li, Na, K B. F, Cl, Br C. Be, Mg, Ca D. O, S, Se
10	Stainless steel consists of which elements.	A. Fe only B. Cr only C. Fe and Ni D. Fe, Ni and Cr
11	Which of the group 13 element does not form M (III) iodide.	A. Al B. Ga C. Ti D. In
12	Pick out the incorrect statement about $\text{K}_2\text{Cr}_2\text{O}_7$	A. It is thermally stable B. It dissolves in alkali to form chromate C. It oxidizes acidified FeSO_4 solution to $\text{Fe}_2(\text{SO}_4)_3$ D. It is used as cleansing agent for glassware, etc. when mixed with cold conc. H_2SO_4
13	Which of the following is an allotrop of hydrogen.	A. O- H_2 B. P- H_2 C. Both A and B D. None of these

14 The contact process is mainly used when acid is required for the manufacture of.
A. Explosives
B. Fine chemicals
C. Lead accumulators
D. All above

15 Which of the following is not an ore of Cr.
A. Chrome iron
B. Nicollite
C. Crocrite
D. Chrome ochre

16 When Phosphate rock $\text{Ca}_3(\text{PO}_4)_2$ is converted to phosphorus.
A. One of the products of the reaction is water
B. Sulphuric acid is added to generate insoluble calcium sulphate
C. Hydrogen is used to reduce the phosphate to phosphorus
D. Silica is added to form a calcium silicate slag

17 Pick out the incorrect statements for transition metals.
A. They have low melting and boiling points
B. 5d-elements have higher energies than 3d or 4d elements
C. Zr and Hf have almost identical atomic and ionic radii
D. They form interstitial compounds.

18 Ferrochromium contains Cr up to
A. 60-70%
B. 70-80%
C. 80-90%
D. 40-50%

19 A covalent bond which is formed between two atoms by the overlap of atomic orbitals along their axis is called.
A. Pi bond
B. Sigma bond
C. Polar bond
D. Non polar bond

20 Bond angle is minimum in
A. H_2O
B. CO_2
C. NH_3
D. CH_4