

PPSC Chemistry Part III Inorganic Chemistry Online Test

Sr	Questions	Answers Choice
1	Which of the elements of group II A has the highest value of IE.	A. Mg B. Be C. Ca D. Sr
2	The bond order for BO molecule is.	A. 2.5 B. 3.0 C. 2.0 D. 3.5
3	Fluorine is.	A. Powerful oxidizing agent B. Most reactive element C. Used as refrigerants D. All of above
4	Fluorine does not show variable oxidation state because of.	A. its high electronegativity B. Its small size C. low dissociation energy of F-F bond D. Non availability of d-orbitals
5	The formula of bleaching powder is.	A. Ca OCl ₂ B. CaClO ₃ C. Ca(ClO) ₃) ₂ D. CaOCl
6	The bond angle along Sp ² hybridization is.	A. 180° B. 120° C. 109.5° D. 160°
7	The law of triads was proposed by	A. Dobereiner B. Newlands C. Lothar Mayer D. Chancourtois
8	The attraction which exists between carbon dioxide molecules in solid carbon dioxide is due to.	A. Van der Waal's forces B. Molecule ion forces C. ionic bonds D. hydrogen bonds
9	Which of the following orbitals has maximum penetration effect.	A. s B. p C. d D. f
10	When metal orbital are rotated in octahedral field the following representation obtained.	A. t _{2g} + e _g B. a _{1g} C. t _{1u} D. All above
11	Among oxides of nitrogen all are gases except.	A. N ₂ O ₅ B. N ₂ O C. NO D. N ₂ O ₃
12	The carbonate of which of the following will have highest lattice energy.	A. Barium B. Magnesium C. Calcium D. Strontium
13	Which of the halogens has lowest bond energy.	A. Cl ₂ B. Br ₂ C. F ₂ D. I ₂
14	Pick out the incorrect statement regarding ozone.	A. O ₃ is an unstable dark blue diamagnetic gas B. The central oxygen in O ₃ is sp ³ hybridized C. It cause the tailing of mercury D. It does not react with KOH
		A. Lewis acid

- 15 Boron and aluminum halides are electron deficient compounds in this respect. they act as.
- B. Lewis base
C. Oxidizing agent
D. Reducing agent
-
- 16 Which of the following hydroxides has the maximum solubility in water.
- A. Mg (OH)₂
B. Ca (OH)₂
C. Sr (OH)₂
D. Ba (OH)₂
-
- 17 The coordination number of closely packed hexagonal is.
- A. 4
B. 6
C. 8
D. 12
-
- 18 In each period, the most electropositive element belongs to group.
- A. 18
B. 17
C. 1
D. 2
-
- 19 Which one of following is paramagnetic and has the bond order equal to 0.57
- A. N₂
B. H₂⁺
C. O₂
D. F₂
-
- 20 The number of electrons involved in bonding in Lewis structure of oxalate ion is
- A. 20
B. 14
C. 22
D. 18