

MDCAT Chemistry Chapter 9 Period Online Test

Sr	Questions	Answers Choice
1	Geometry of simple molecule with sp ² hybridization	A. Triangular planar B. Trigonal C. Square planner D. Pyramidal
2	Total number of valence electrons in phosphonium ion (PH ₄ ⁺) is	A. 8 B. 9 C. 12 D. 10
3	Ionic bond is produced after complete transfer of	A. nucleus B. neutrons C. electrons D. protons
4	The no. of lp's on oxygen in CO are	A. 1 B. 3 C. 4 D. 2
5	The ionization energy	A. generally increases from left to right in a period B. increases from top to bottom in a group C. does not change in a period D. does not change in a group
6	What will be the shape of a molecule which contains two sigma bond pairs and one lone pair?	A. Linear B. V shape C. Tetragonal D. Triangular
7	H ₃ O ⁺ can't accept a lp because	A. it has positive charge B. The central atom is not electron deficient C. The shell of oxygen has reached its limit D. it already has a coordinate bond
8	Which of the following molecule has zero dipole moment?	A. PCl ₃ B. BF ₃ C. NH ₃ D. H ₂ O
9	Which one of the following has polar covalent bonds but is overall non-polar molecule:	A. HF B. CO ₂ C. CH ₄ D. N ₂
10	A molecule that has polar bonds but is overall non - polar	A. IF B. CCl ₄ C. PCl ₃ D. All
11	The shielding effect of inner electron is responsible for	A. Having no effect on ionization energy B. Decreasing ionization energy C. Increasing ionization energy D. Increasing electronegativity
12	At compromise distance the forces dominating between atoms are	A. repulsive forces B. attractive forces C. Dipole induced dipole force D. H-bonding
13	In a group, the atomic radii from top to bottom	A. increase B. decrease C. don't change D. show variable trend
14	The ionization energy of hydrogen atom is	A. Zero B. 131.3kJ/mole C. 13.13kJ/mole D. 1313kJ/mole

15	Mostly ionic compounds are produced between elements of group	A. IA and IIA B. IB and VIB C. IA, IIA and VII-A D. IA and IB
16	Elements of group IA and IIA are	A. electronegative B. neutral C. electropositive D. non-metals
17	pi-bond can be formed by sideways overlap of	A. s-orbital B. d-orbital C. p-orbital D. sp orbital
18	Energy of atom in compound is	A. Higher than individual atom B. Lower than individual atom C. equal to individual atom D. Impossible to predict
19	What is not true for NH ₄ Cl	A. It has ionic bond B. It has covalent bond C. It has coordinate bond D. It has hydrogen bond
20	what is the exact value of angle in BF ₃	A. 90 B. 104.51 C. 119.5 D. 120°
