Chemical Bonding

Sr	Questions	Answers Choice
1	Which will have zero dipole moment	A. H2O B. BF3 C. H2S D. CHCl3
2	The molecule with linear structure is	A. H2O B. CO2 C. H2S D. BF3
3	The shape of ICl5 according to the VSEPR model is	A. T shape B. Tetrahedral C. Trigonal panar D. Trigonal bipyramidal
4	Covalent bonds are	A. Right and directional B. Non rigid and directional C. Rigid and non directional D. Non rigid and non directional
5	Which of the following moleules has zero dipole moment.	A. BF3 B. NH3 C. CHCl3 D. H2O
6	Which of the followng molecules has zero dipole moment.	A. BF3 B. NH3 C. H2O D. CHCl3
7	Sp3 Hybridiztion ins associated wiht structure.	A. Linear B. Tretrahedral C. Trigonal D. Octahedra
8	Dipole moment of CO2 is	A. 1.8 D B. 1.94 D C. 1.0 D D. Zero
9	The bond formation energy of a compund is.	A. Equal to bond idssociation energy B. Less thanbond idssociation energy C. Greater than bond dissociaton energy D. Inverselyproportional to bond dissociation energy
10	Thnumebr of lone pair of electonrsein ammonium ion is	A. One B. Two C. Three D. Zero
11	Which of the followig molecules has a dipole moment.	A. CO2 B. CS2 C. SO2 D. CCl4
12	Which of the following species has unparied electonrs in antibonding molecular orbitals.	A. O2 ²⁺ B. N 2 ²⁻ C. B D. F2
13	Which theory explain the paramagnetic behavior exhibited by O2 molecule.	A. Band Theory B. VBT C. MOT D. VSEPR Theory
14	Highest bond order is found in	A. O2 B. O2 ⁻¹ C. O2 ⁺² D. O2 ⁺¹

15	Which of the following molecules has a central atom with sp3 hybridization and a tetrahedral electron pair geometry.	A. CCl4 B. BF3 C. SO2 D. PCl5
16	The expected bond energy of HCl is lesser than the actual, this is because.	A. Size of hydrogen is very small B. HCl is non polar compund C. HCl is a polar comoound D. There exists hydrogen bonding
17	Which of the following hybridizations is found in ethyne.	A. Sp B. sp2 C. sp3 D. No hybridization
18	Which of the following species contains a dative bond.	A. NH4 B. CH4 C. SO2 D. PCl5
19	Dipole moment is the product of.	A. Charge x displacement B. Charge x distance C. Newton x displacement D. Charge x mass
20	Octet rule is not obeyed b which of the following compounds during its formation	A. H2O B. NaCl C. NH3 D. PF5