Chemical Bonding

Sr	Questions	Answers Choice
1	Which one is a non polar molecule.	A. CS2 B. CaC2 C. H2S D. CaCl2
2	The actual bond length in a polar covalent compund is.	A. Lesser thanexpected B. Greeater ahtn expected C. Equal to the expected D. Exactly half of expected
3	Which of the following moleules has zero dipole moment.	A. BF3 B. NH3 C. CHCl3 D. H2O
4	Which of the following species has unparied electonrs in antibonding molecular orbitals.	A. O2 ²⁺ B. N 2 ²⁻ C. B D. F2
5	Tendency of an atom to attract the shared pair of electrons is called.	A. Electronegativity B. Ionization energy C. Electron Affinity D. Electrpositivity
6	Thnumebr of lone pair of electonrsein ammonium ion is	A. One B. Two C. Three D. Zero
7	How many electrons are presente in the valence shell of P in $PO4^{3}$	A. 8 B. 10 C. 12 D. 14
8	Which theory explain the paramagnetic behavior exhibited by O2 molecule.	A. Band Theory B. VBT C. MOT D. VSEPR Theory
9	What is bond angele in NF3?	A. 102^o B. 109.5^o C. 104,5^o D. 107.5^o
10	The bond angle in ethene molecule is.	A. 120^o B. 180^o C. 109^o D. 107.5^o
11	What is the type of [ICL4] according to the VSEPR model.	A. AB 4 Tetrahederal B. AB 4, Pyramidal C. AB 5, trigonal bipyramidal D. AB6, trigonalbipyramidal
12	Covalent bonds are	A. Right and directional B. Non rigid and directional C. Rigid and non directional D. Non rigid and non directional
13	Dipole moment is the product of.	A. Charge x displacement B. Charge x distance C. Newton x displacement D. Charge x mass
14	Sp3 Hybridiztion ins associated wiht structure.	A. Linear B. Tretrahedral C. Trigonal D. Octahedra
		A. The ionization eenrgy of A is high and electron affinity of B is low

15	An ionic compound A+B is most likely to be formed when	B. The ionization energy of A is low and electron affinity of B is high C. Boht the ionization energy of A and electron affinity of B are high D. Both the ionization energy of A and electron affinity of B are low.
16	Which type of hybridization of C occurs in CO2	A. SP B. sp2 C. sp3 D. dsp2
17	In which of the following molecules ionic bond is found.	A. CsI B. NH3 C. HF D. CaC2
18	The most electronegative atom is	A. F B. Cl C. N D. O
19	Which of the following hybridizations is found in ethyne.	A. Sp B. sp2 C. sp3 D. No hybridization
20	Which of the following species contains a dative bond.	A. NH4 B. CH4 C. SO2 D. PCl5