

ECAT Chemistry Chapter 6 Chemical Bonding

Sr	Questions	Answers Choice
1	The degree of polarity of molecule is known as its	A. Dipole moment B. Moment arm C. Bond energy D. Ionic character
2	Which of the following is a polar molecules	A. Carbon dioxide B. Carbon tetrachloride C. Methanol D. Ethane
3	Atoms obey octet rule by sharing-electrons making covalent bonds according to	A. Lewis and Kossal theory B. Valance bond theory C. VSEPR theory D. Molecular orbital theory
4	The number of bonds in nitrogen molecule is	
5	A molecule in which sp^2 hybrid orbitals are used by the central atom in forming covalent bonds in	A. He_2 B. SO_2 C. PCl_5 D. N_2
6	One of the following bonds is polar but compound is non-polar	A. H_2O B. NH_3 C. HCl D. CO_2
7	Ionic radius, in a period from left to right	A. Increases B. Decreases C. Decreases then increases D. Increases and decreases
8	The electron affinity of chlorine may be represented by the equation	
9	The boiling point of heavy water is	A. $108^\circ C$ B. $101.4^\circ C$ C. $99^\circ C$ D. $110^\circ C$
10	The shape of the molecule SF_2Cl_2 is	A. Trigonal bipyradmidal B. Cubic C. Octahedral D. Tetrahedral
11	When of the following is isoelectronic with krypton	A. Ca^{3+} B. Al^{3+} C. Br^{-1} D. I^{-1}
12	Which of the following has zero depole-moment?	A. CIF B. PCl_3 C. SiF_4 D. $CFCl_4$
13	$SnCl_2$ have _____ shape	A. Planner B. Tetrahedral C. Angular D. None
14	An ionic compound M_2S_3 is formed by the metal M,, the metal is	A. Ca B. Ba C. K D. Al
15	According to MO Theory, the species O_2^+ possesses	A. bond order of 2.5 B. three unpaired C. diamagnetic character

		D. stability lower than O_2
16	The nature of interparticle forces in benzene is	A. Dipole-dipole interaction B. Dispersion force C. Ion-dipole interaction D. H-bonding
17	Shielding effect intervening electrons causes	A. Decreases in atomic radii in a period from right to left B. Increase in atomic radii in a period from left to right C. Decrease in atomic radii down the group D. Increase in atomic radii down the group
18	All covalent bonds formed between the two atoms are non-polar when	A. Covalent bond between two non-metal atoms B. Covalent bond between metal and non-metal C. Covalent bond between two atoms of same element D. Covalent bond between metal atoms
19	Size of an anion is increased as compared to its atom because of the	A. Addition of new shell B. Repulsion of electrons in the valence shell C. Decrease in nuclear charge D. Increase in the nuclear charge
20	Triple bond is present in	A. O_2 B. H_2 C. N_2 D. Cl_2