

ECAT Chemistry Chapter 6 Chemical Bonding Online Test

0-	Outstand	A Oh -:
Sr	Questions	Answers Choice
1	When an electron is absorbed in an empty or partially filled orbital of an atom, the energy released is called	A. lonization energy B. Potential energy C. Electron affinity D. Bond energy
2	Hydrogen chloride molecule contains	A. Covalent bond B. Double bond C. Co-ordinate bond D. Electrovalent bond
3	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
4	Which of the following molecules have multiple bonds	A. CH ₄ B. C ₂ H ₄ C. C ₂ H ₆ D. CCl ₄
5	Coordinate covalent bond is present in the molecules	A. H ₂ O B. BF ₃ C. SiO ₂ D. SO ₂
6	If two lone pairs are present then bond angle of tetrahedral compound reduces todegrees	A. 109.5° B. 107.5° C. 104.5° D. None
7	A molecule in which $\mbox{sp}^2\mbox{hybrid}$ orbitals are used by the central atom in forming covalent bonds in	A. He ₂ B. SO ₂ C. PC ₅ D. N ₂
8	The covalent bonds are	A. Unidirectional B. Bi-directional C. Non-directional D. Multi-directional
9	Noble gases have the electronic configuration with their valance shell $\mbox{ns}^2\mbox{np}^6\mbox{except}$ one	A. He B. Ne C. Kr D. Xe
10	Which of the following species has unpaired electrons in antibonding molecular orbitals	
11	According to VSEPR theory, the shape of the water molecule is	A. Octahedral B. Distorted tetrahedral C. Planar triangle D. Linear
12	Electronegativity values of the elements F, Cl and Br vary	A. F > CI > Br B. Br > CI > F C. CI > Br > F D. CI > F > Br
13	The electronegativity of elements in a period from left to right	A. Decreases B. Increases C. First decreases then increases D. First increases then decreases
14	Maximum hydrogen bonds in water are	A. 4 B. 3 C. 2 D. 8
15	When elements of group I react with the elements of group VIA theory form	A. lonic bond B. Covalent bond C. Polar bond

		D. None
16	Which of the following has zero depole-moment?	A. CIF B. PCI ₃ C. SiF ₄ D. CFCI ₄
17	Question Image	A. The ionization energy of A is high and electron affinity of B is low B. The ionization energy of A is low and electron affinity of B is high C. Both the ionization energy of A and electron off affinity of B are high D. Both the ionization energy of A and electron affinity of B are low
18	H-bonding is not present in	A. Glycerine B. Water C. Hydrogen sulphide D. Hydrogen fluride
19	When two hydrogen atoms approach to form a chemical bond	A. The repulsive forces dominate the attractive forces B. The attractive forces, dominate the repulsive forces C. The energy of atoms increases D. The two atoms start ionization
20	The number of electron pairs shared in carbon tetrachloride molecule is	A. 2 B. 3 C. 4 D. 1