

ECAT Chemistry Chapter 6 Chemical Bonding Online Test

Sr	Questions	Answers Choice
1	Which of the following has unchanged valency?	A. H B. Na C. Fe D. Oxygen
2	Question Image	A. Excitantion of an electron from 2s to 2p-orbital B. Transfer of three electrons from B to the other atoms C. Excitation of two electrons form 2s orbital to 2p orbital D. Formation of molecular ion
3	Tripple bond is present in	A. O ₂ B. H ₂ C. N ₂ D. Cl ₂
4	Which of the following hydrides has the lowest boiling point?	A. H ₂ 0 B. H ₂ S C. H ₂ S3 D. H ₂ Te
5	One of the following bonds is polar but compound is non-polar	A. H ₂ O B. NH ₃ C. HCI D. CO ₂
6	Maximum hydrogen bonds in water are	A. 4 B. 3 C. 2 D. 8
7	Which for the following has no dipole moment	A. HCI B. H ₂ S C. H ₂ O D. CO ₂
8	Which of the following is a polar molecules	A. Carbon dioxide B. Carbon tetrachloride C. Methanol D. Ethane
9	Three sp ² hybrid are co-planar at an angle of	A. 104.5° B. 109.5° C. 107° D. 120°
10	The number of bonds in nitrogen molecule is	
11	The number of electron pairs shared in carbon tetrachloride molecule is	A. 2 B. 3 C. 4 D. 1
12	Which of the following molecules have multiple bonds	A. CH ₄ B. C ₂ H ₄ C. C ₂ H ₆ D. CCI ₄
13	The Electro-negatively difference for ionic bond must be greater than	A. 1.6 B. 1.7 C. 1.8 D. 1.0
14	Two H-atom combine to form a strong H ₂ molecule due to	A. Increase in potential energy B. Decrease in potential energy C. Energy remains unchanged D. Distance is increased
15	Which of the hydrogen halides has the highest percentage of ionic character	A. HCI B. HBr C. HF D. HI

6	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
7	The electronegativeities of F,Cl,Br and I are 4.0,3.0,2.8,2.5 respectively. Hydrogen halide with a high percentage of ionic character is	A. HF B. HCL C. HBr D. HI
8	Which of the following geometry is associated with the compound in which the central atom assumes ${\sf sp}^3{\sf d}$ hybridization?	A. Planar B. Pyramidal C. Angular D. Trigonal bipyramidal
9	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
0	The tendency of an atom to attract shared electron pair towards itself is called	A. Covelent bond B. Electronegativity C. Ionization potential D. Electronic affinity