

ECAT Chemistry Chapter 6 Chemical Bonding Online Test

Sr	Questions	Answers Choice
1	The bond angle H - O - H in ice ins closest to	A. 120 °, 28['] B. 60 ° C. 90 ° D. 109 °
2	If two lone pairs are present then bond angle of tetrahedral compound reduces to degrees	A. 109.5° B. 107.5° C. 104.5° D. None
3	Water H ₂ O is liquid while hydrogen sulphide H ₂ S is a gas beause	A. Water has higher molecular weight B. Hydrogen sulphide is a weak acid C. Sulphure has high electronegativity than oxyhe D. Water molecules associate through hydrogen bonding
4	In which of the following theories the hybridizationis considered	A. Vsepr B. Lewis C. Molecule orbital D. Valence bond
5	The electron affinity of chlorine may be represented by the equation	
6	Which of the following hydrides has the lowest boiling point?	A. H ₂ 0 B. H ₂ 8 C. H ₂ 8 D. H ₂ 7 D. H ₂ 7
7	The ionic bonds are	A. Unidirectional B. Bi-directional C. Non-directional D. Multi-directional
8	lonic radius, in a period from left to right	A. Increases B. Decreases C. Decreases then increases D. Increases and decreases
		A. 154 pm
9	Question Image	B. 133 pm C. 120 pm D. 150 pm
10	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
11	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 unclear charge
12	Which of the hydrogen halides has the highest percentage of ionic character	A. HCI B. HBr C. HF D. HI
13	The driving force for making a bond is	A. To attain noble gas electronic configuration B. To make soled compounds C. To make different compounds D. To make gaseous substances

Maximum hydrogen bonds in water are	A. 4 B. 3 C. 2 D. 8
Planar geometry of molecules is due to	A. sp ³ hybridization B. sp ² hybridization C. sp hybridization D. P - p overlap
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
One of the following bonds is polar but compound is non-polar	A. H ₂ O B. NH ₃ C. HCI D. CO ₂
The bond angle depends upon the	A. Types of bondsB. Number of bondsC. Non-bonding electron pairsD. All of the above
When of the following is isolelectronic with krypton	A. Ca ⁺⁺ B. Al ⁺⁺⁺ C. Br ⁻¹ D. I ⁻¹
The bond order for He ₂ molecule is	A. zero B. 1/2 C. 1 D. 2
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