

Chemistry Worksheets Class 11 on Chapter 4 Chemical Bonding and Molecular Structure - Set 3

Q-1: Which of the following possesses an expanded octet?

- a) IF_7
- b) SF_6
- c) BrF_5
- d) All of the above

Q-2: Strongly electronegative element B contrasts with strongly electropositive element A. Both are divalent. The resulting compound would be

- a) $\text{A} \rightarrow \text{B}$
- b) $\text{A}^{2+} \text{B}^{2-}$
- c) $\text{A}^{2-} \text{B}^{2+}$
- d) $\text{A}-\text{B}$

Q-3: Which of the following compounds shows the highest lattice energy?

- a) CsCl
- b) KCl
- c) RbCl
- d) NaCl

Q-4: Which one of the following molecules is formed by p-p overlapping?

- a) I_2
- b) HBr
- c) H_2S
- d) PH_3

Q-5: Which of the following H-bonds has the greatest impact on a molecule's physical characteristics?

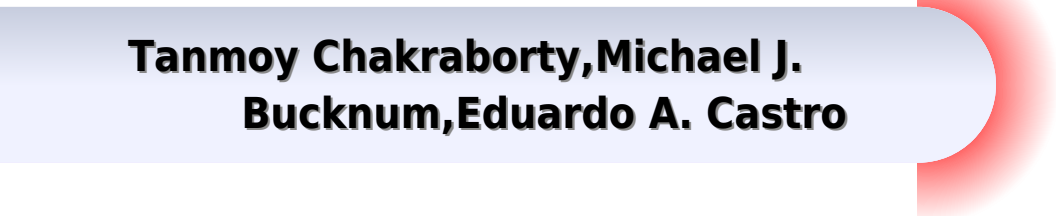
- a) Intramolecular H-bond
- b) Intermolecular H-bond
- c) Both of the above
- d) All H-bonds

Q-6: State the crucial conditions that must be met for a molecule to undergo hybridisation.

Q-7: Describe why CH_4 has a tetrahedral geometry rather than a square planar geometry with a carbon atom in the centre and four H atoms at each corner.

Answer Key To Chemical Bonding Directed

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Bucknum, Eduardo A. Castro**



Answer Key To Chemical Bonding Directed:

Directed C-H Bond Functionalization Debabrata Maiti, Supriya Rej, 2026-02-02 Streamlined cost effective and environmentally benign concepts for the synthesis of chemical building blocks and pharmaceuticals Directed C H Bond Functionalization summarizes recent advances in the field of selective and efficient C H bond functionalization using directing groups Written by a team of experts in the field Directed C H Bond Functionalization includes information on History of the C H bond activation and its discovery In built functional group directed C H functionalization proximal C H bond functionalization and template assisted distal C H bond functionalization Transient directing group assisted C H bond functionalization and bifunctional non covalent template assisted C H functionalization Redox catalytic methods and metal free directed C H functionalization reactions Industrial and synthetic application of directed C H bond functionalization in organic synthesis medicinal and process chemistry With its all encompassing approach Directed C H Bond Functionalization is a timely essential reference for synthetic chemists in academia and industry working in the fields of organic synthesis catalysis sustainable chemistry and drug design

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Chemistry, Study Guide Bernice G. Segal,Peter S. Shenkin,1989-02-14 This Second Edition of the first year chemistry text known for its clarity of exposition and its large number of illustrative worked problems contains a more rigorous treatment of electrochemistry chemical equilibrium and thermochemistry Worked examples now number over 300 and exercises over 1460 *Books in Print Supplement* ,2002 **Bulletin of the Chemical Society of Japan** Nihon Kagakkai,1998

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