

# Chemical Bonding

## SECTION 3

**SHORT ANSWER** Answer the following questions in the space provided.

1. **A** The notation for sodium chloride, NaCl, stands for one  
(a) formula unit. (c) crystal.  
(b) molecule. (d) atom.
2. **D** In a crystal of an ionic compound, each cation is surrounded by a number of  
(a) molecules. (c) dipoles.  
(b) positive ions. (d) negative ions.
3. **B** Compared with the neutral atoms involved in the formation of an ionic compound, the crystal lattice that results is  
(a) higher in potential energy. (c) equal in potential energy.  
(b) lower in potential energy. (d) unstable.
4. **B** The lattice energy of compound A is greater in magnitude than that of compound B. What can be concluded from this fact?  
(a) Compound A is not an ionic compound.  
(b) It will be more difficult to break the bonds in compound A than those in compound B.  
(c) Compound B has larger crystals than compound A.  
(d) Compound A has larger crystals than compound B.
5. **B** The forces of attraction between molecules in a molecular compound are generally  
(a) stronger than the attractive forces among formula units in ionic bonding.  
(b) weaker than the attractive forces among formula units in ionic bonding.  
(c) approximately equal to the attractive forces among formula units in ionic bonding.  
(d) equal to zero.
6. Describe the force that holds two ions together in an ionic bond.

**Very strong overall attraction between positive and negative charges**

7. What type of energy best represents the strength of an ionic bond?

**Lattice energy**

8. What types of bonds are present in an ionic compound that contains a polyatomic ion?

# Chapter Review Chemical Bonding Answers

**Mark Steyvers**



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**Understanding Chemistry** Fred M. Dewey, 1994      **A Complete Preparation for the MCAT** Aftab S. Hassan, James L. Flowers, 1992 This guide for MCAT preparation applies the principles of active and problem based learning to an updated review of content and skills with models for enhanced problem solving and critical thinking abilities There are details on setting up a self managed study programme with guidelines for time management and stress management All areas tested on the exam are covered verbal reasoning physical science writing sample biological sciences with practice questions to chart progress      *Admission Assessment Exam Review E-Book* HESI, 2020-01-24 Passing the HESI Admission Assessment Exam is the first step on the journey to becoming a successful healthcare professional Be prepared to pass the exam with the most up to date HESI Admission Assessment Exam Review 5th Edition From the testing experts at HESI this user friendly guide walks you through the topics and question types found on admission exams including math reading comprehension vocabulary grammar biology chemistry anatomy and physiology and physics The guide includes hundreds of sample questions as well as step by step explanations illustrations and comprehensive practice exams to help you review various subject areas and improve test taking skills Plus the pre test and post test help identify your specific weak areas so study time can be focused where it s needed most HESI Hints boxes offer valuable test taking tips as well as rationales suggestions examples and reminders for specific topics Step by step explanations and sample problems in the math section show you how to work through each and know how to answer Sample questions in all sections prepare you for the questions you will find on the A2 Exam A 25 question pre test at the beginning of the text helps assess your areas of strength and weakness before using the text A 50 question comprehensive post test at the back of the text includes rationales for correct and incorrect answers Easy to read format with consistent section features introduction key terms chapter outline and a bulleted summary help you organize your review time and understand the information NEW Updated thoroughly reviewed content helps you prepare to pass the HESI Admission Assessment Exam NEW Comprehensive practice exams with over 200 questions on the Evolve companion site help you become familiar with the types of test questions      **Study Guide to accompany Basic Concepts of Chemistry, 7th Edition** Leo J. Malone, 2003-02-20 Work more effectively and gauge your progress along the way This Study Guide that is designed to accompany Malone s Chemistry 7th Edition includes chapter summaries new terms self tests answers to self tests and solutions to selected problems This easy to read introduction presents chemistry as a living relevant science Chemistry 7th Edition encourages critical thinking and helps readers overcome the math difficulties that often prevent them from developing a full understanding of the subject This new seventh edition builds on its core strengths of pedagogy driving the connections between ideas mathematics in context not just an appendix and an extensive problem solving emphasis with an updated design and more molecular art In addition the seventh edition expands its applications and online options One of the briefest books in the market it still provides sufficient depth for the basic concepts of chemistry

*Merrill Chemistry* Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998      **Basic Concepts of Chemistry, Study Guide** Leo J. Malone, 1989-02-21 This Third Edition revised to provide smoother transitions between topics employs a concise yet informal approach to basic chemistry organized to help students employ basic math skills and problem solving strategies Writing style is straightforward and presentation incorporates many concrete analogies to clarify new concepts Includes many illustrative worked examples      **Modern Chemistry** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001

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