



# COVALENT BONDING

## Practice Problems

Do your answers to the following problems.

### SECTION 8.1 MOLECULAR COMPOUNDS

- Classify each of the following as either ionic or molecular.
  - $\text{NaCl}$
  - $\text{H}_2\text{O}$
  - $\text{HCl}$
  - $\text{KNO}_3$
  - $\text{C}_2\text{H}_6$
  - $\text{H}_2\text{SO}_4$
  - $\text{CaCl}_2$
  - $\text{C}_2\text{H}_5\text{OH}$
  - $\text{H}_2\text{O}_2$
  - $\text{CO}_2$

- Classify each of the following as either ionic or molecular compound. Write the name of the compound.
- $\text{K}_2\text{SO}_4$
- $\text{C}_2\text{H}_6$
- $\text{H}_2\text{O}$
- $\text{H}_2\text{SO}_4$
- $\text{CaCl}_2$
- $\text{C}_2\text{H}_5\text{OH}$
- $\text{H}_2\text{O}_2$
- $\text{CO}_2$

### SECTION 8.2 THE NATURE OF COVALENT BONDING

- Show covalent bonding in hydrogen fluoride.  $\text{H}-\text{F}$
- Show covalent bonding in methane.  $\text{CH}_4$
- Show covalent bonding in carbon dioxide.  $\text{CO}_2$
- Show covalent bonding in acetylene.  $\text{H}-\text{C}\equiv\text{C}-\text{H}$
- Draw Lewis structures for the following molecules.
  - $\text{C}_2\text{H}_6$
  - $\text{C}_2\text{H}_4$
  - $\text{C}_2\text{H}_2$
  - $\text{C}_2\text{H}_6\text{O}$
  - $\text{C}_2\text{H}_6\text{O}_2$
  - $\text{C}_2\text{H}_4\text{O}_2$
  - $\text{C}_2\text{H}_4\text{O}$
  - $\text{C}_2\text{H}_2\text{O}_2$
  - $\text{C}_2\text{H}_2\text{O}$



### SECTION 8.3 BONDING: THE ORBITALS

- Which orbital and sub-orbital do you combine to form the sigma bond in the following molecules?
  - $\text{H}_2$
  - $\text{H}_2\text{O}$
  - $\text{H}_2\text{O}_2$
  - $\text{C}_2\text{H}_6$
  - $\text{C}_2\text{H}_4$
  - $\text{C}_2\text{H}_2$

# Chapter 8 Covalent Bonding Test B Answers

**Wenbin Ji**



**Chapter 8 Covalent Bonding Test B Answers:**

## Reviewing **Chapter 8 Covalent Bonding Test B Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Chapter 8 Covalent Bonding Test B Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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