



Unit: Chemical Bonding Answer Key “Covalent Bonding” - WS #3

Directions: Please answer each question using your notes from today’s class. ☺

1. What is the difference between a molecular formula, structural formula and an electron dot formula? Give an example of each.

A molecular formula gives the chemical make-up of one molecule. It does not show atom-to-atom connectivity. Example: C_3H_8

A structural formula uses lines instead of dots to show shared pairs of electrons.

Example: $H-H$

An electron dot formula uses dots instead of lines to show shared pairs of electrons.

Example: $H:H$

2. What is the difference between single, double, and triple covalent bonds? How many shared electrons are in each?

The difference between the types of bonds is: a single bond is two shared electrons, a double is four shared electrons, and a triple is six shared electrons.

3. Draw the electron dot and structural formulas for the following molecules.

Substance	Rough copy (work!)	Electron dot	Structural
a) Cl_2		<i>Note: The electron dot structures have dots in between each atom instead of lines.</i>	$:\ddot{Cl}-\ddot{Cl}:$
b) H_2S			$\begin{array}{c} :\ddot{S}: \\ \\ H \end{array} - H$
c) BrI			$:\ddot{I}-\ddot{Br}:$

Covalent Bonding Answer Key Exercise 11

Hans Wachtmeister, Larry Scott



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Inorganic Chemistry for JEE Advanced: Part 1, 3E (Free Sample) K. S. Verma, 2022-05-19 Inorganic Chemistry for JEE Advanced Part 1 a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of inorganic chemistry from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers

Chemistry Class 11 Dr. S C Rastogi, ,Er. Meera Goyal, 2022-09-29 Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XI V Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table

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Petrucci,1989 **McGraw-Hill's GED** McGraw-Hill Education,2001-09-11 The bestselling guide updated to reflect all changes to the GED through 2002 Each year nearly a million North Americans take the GED high school equivalency exam Formerly entitled Contemporary s GED one of the most popular resources for those prepping for the test has been revised for all changes to the GED through 2002 This latest edition of the bestselling guide arms readers with what they need to score high in all five test categories including targeted assessments easy to follow instructions hundreds of reinforcement activities and simulated GED tests for each subject area Outstanding features that have made for the continuing popularity of this guide include Half length pretests for each subject area that help readers pinpoint strengths and weaknesses Two full length practice tests for each subject area Special new sections on critical thinking skills graphs and illustrations New guidelines for using the Casio fx 260 solar calculator for the mathematics test A complete answer key explaining why each answer is correct Chapter by chapter surveys that reinforce knowledge of key concepts Test taking tips and strategies *Introductory Chemistry for Today* Spencer L. Seager,Michael R. Slabaugh,2004 Distinguished by its superior allied health focus and integration of technology Seager and Slabaugh s INTRODUCTORY CHEMISTRY FOR TODAY Fifth Edition continues to lead the market on both fronts through numerous allied health related applications examples boxes and a new Companion Web Site GOB ChemistryNow tm In addition to the many resources found in GOB ChemistryNow this powerful new Web site contains questions modeled after the Nursing School and Allied Health Entrance Exams and NCLEX LPN Certification Exams The authors strive to dispel users inherent fear of chemistry and to instill an appreciation for the role chemistry plays in our daily lives through a rich pedagogical structure and an accessible writing style that provides lucid explanations In addition Seager and Slabaugh s CHEMISTRY FOR TODAY Fifth Edition provides greater support in both problem solving and critical thinking skills By demonstrating how this information will be important to a reader s future career and providing important career information online the authors not only help readers to set goals but also to focus on achieving them **Studying in the Content Areas** Carole Bogue,1993 **Encounters with Life** Hans Wachtmeister,Larry Scott,2006-01-01 This laboratory manual is designed for use in a one or two semester introductory biology course at the college level and can be coordinated with any general biology textbook Each exercise is a self contained unit with clearly stated objectives a variety of learning experiences and thought provoking review questions Chemistry for Health-related Sciences Curtis T. Sears,Conrad L. Stanitski,1983 Chemistry James E. Brady,John R. Holum,1995-12-29 Offers accurate lucid and interesting explanations of basic concepts and facts of chemistry while helping readers develop skills in analytical thinking and problems solving **Chemistry** George M. Bodner,Harry L. Pardue,1989-01-23 A modern experimental approach to first year chemistry This unique introductory account employs experimental observations to construct the principles of general chemistry An early introduction to observable descriptive chemistry lays the basis for the well developed exposition that follows **Student Study Guide** Liebaert,2002-08 by Richard Liebaert Linn Benton Community College Students can

master key concepts and earn a better grade with the thought provoking exercises found in this study guide A wide range of questions and activities help students test their understanding of biology The Student Study Guide also includes references to student media activities on the Campbell Biology CD ROM and Web Site *Chemistry* Steven S. Zumdahl,1993

Contemporary's GED Patricia Mulcrone,1994 Writing skills social studies science literature and the arts plus mathematics are included in this study guide **Chemistry** James Vincent Quagliano,L. M. Vallarino,1969

Introduction to General, Organic, and Biochemistry Morris Hein,1997 The authors recognize that both science and mathematics may be daunting subjects for many students taking this course With this in mind they have anticipated where students might stumble and have paced and organized this text to help them through Their goal is to make the material interesting and relevant so students understand the basic chemical principles related to their career The authors emphasize problem solving and provide a range of practice exercises As in previous editions the text first presents the basic concepts of general chemistry and then moves into organic and biochemistry In this edition the first two sections have been revised primarily to improve explanations and include new pedagogical features The biochemistry portion has been thoroughly updated to include coverage of many recent developments and emerging technologies in the field

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