



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			$:\ddot{I}-\ddot{Br}:$

Chemical Bonds Chapter 19 Answers Key

Frederick A. Bettelheim, Jerry March



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CSIR NET Chemical Sciences Question Bank Mocktime Publication, The Chemical Sciences question bank for CSIR NET is fully aligned with the official syllabus covering Inorganic Chemistry Organic Chemistry Physical Chemistry Analytical Materials etc It offers PDF downloads of past papers with answers and solutions topic wise question banks advanced problem sets in Part C that require analytical reasoning beyond rote learning The exam pattern identical to the other NET subjects has designated number of questions in Parts A B and C as per CSIR HRDG guidelines Using this bank enables candidates to map syllabus to repeated high weight topics practise book based MCQs and past paper items and refine speed and accuracy under timed conditions Alongside the question bank affiliated books provide conceptual notes solved examples and full length mock test series For aspirants targeting fellowships or lectureships in Chemical Sciences this resource becomes central to structured revision and predictive test simulation

Chemistry John A. Olmsted, Gregory M. Williams, Robert Charles Burk, 2016-01-14 Olmsted Burk is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers distinguish this text from many of the current text offerings It more accurately reflects the curriculum of most Canadian institutions Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant

Chemistry, Student Study Guide John A. Olmsted, Gregory M. Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor's resource CD and a solution CD

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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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