

COVALENT BONDING

Name _____

Covalent bonding occurs when two or more nonmetals share electrons, attempting to attain a stable octet of electrons at least part of the time. For example:

*H wants 2 electrons
all other atoms 8*



Note that hydrogen is content with 2, not 8, electrons.

electrons in the middle share

Show how covalent bonding occurs in each of the following pairs of atoms. Atoms may share one, two or three pairs of electrons.

wanted available share

1. $\text{H} + \text{H} (\text{H}_2)$ W - 4 A - 2 S - 2	<i>wanted 2 + 2</i> <i>available</i> $\text{H} \cdot \cdot \text{H}$ $\text{H} \cdot \quad \cdot \text{H}$	$\text{H} - \text{H}$ <i>single bond = share 2 e⁻</i>
2. $\text{F} + \text{F} (\text{F}_2)$ W - 8 + 8 = 16 A - 7 + 7 = 14 S - 2	$\cdot \ddot{\text{F}} \cdot \cdot \ddot{\text{F}} \cdot$ <i>2 e⁻</i>	$\cdot \ddot{\text{F}} - \ddot{\text{F}} \cdot$ <i>single bond 2 e⁻</i>
3. $\text{O} + \text{O} (\text{O}_2)$ W - 8 + 8 = 16 A - 6 + 6 = 12 S - 4	$\cdot \ddot{\text{O}} \cdot \cdot \ddot{\text{O}} \cdot$ <i>4 e⁻</i>	$\cdot \ddot{\text{O}} = \ddot{\text{O}} \cdot$ <i>4 double bond</i>
4. $\text{N} + \text{N} (\text{N}_2)$ W - 8 + 8 = 16 A - 5 + 5 = 10 S - 6	$\cdot \ddot{\text{N}} \cdot \cdot \ddot{\text{N}} \cdot$	$\cdot \ddot{\text{N}} \equiv \ddot{\text{N}} \cdot$
5. $\text{C} + \text{O} (\text{CO}_2)$ W - 8 + 8 + 8 = 24 A - 4 + 6 + 6 = 16 S - 8	$\cdot \ddot{\text{O}} \cdot \cdot \ddot{\text{C}} \cdot \cdot \ddot{\text{O}} \cdot$	$\cdot \ddot{\text{O}} = \text{C} = \ddot{\text{O}} \cdot$
6. $\text{H} + \text{O} (\text{H}_2\text{O})$ W - 2 + 2 + 8 = 12 A - 1 + 1 + 6 = 8 S - 4	$\text{H} \cdot \cdot \ddot{\text{O}} \cdot \cdot \text{H}$	$\text{H} - \ddot{\text{O}} - \text{H}$

Answer Key For Bonding Ionic And Covalent Read

O.P. Gupta



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range of additional resources for both students and registered adopters of the book New to this Edition A new chapter on symmetry has been added to Part I Discussions of organometallic chemistry spectroscopy and molecular geometry have been expanded Cross references from Part I to Part II have been increased to make the links between core concepts and more advanced topics clearer More self test questions and exercises have been provided

CBSE New Pattern Chemistry Class 11 for 2021-22 Exam (MCQs based book for Term 1) Shahana Ansari, Abhishika Kaushik, 2021-09-10 1 This book deals with CBSE New Pattern Chemistry for Class 11 2 It is divided into 7 Chapters as per Term 1 Syllabus 3 Quick Revision Notes covering all the Topics of the chapter 4 Carries all types of Multiple Choice Questions MCQs 5 Detailed Explanation for all types of questions 6 3 practice papers based on entire Term 1 Syllabus with OMR Sheet With the introduction of new exam pattern CBSE has introduced 2 Term Examination Policy where Term 1 deals with MCQ based questions while Term 2 Consists of Subjective Questions Introducing Arihant's CBSE New Pattern Series the first of its kind providing the complete emphasize on Multiple Choice Questions which are designated in TERM 1 of each subject from Class 9th to 12th Serving as a new preparatory guide here s presenting the all new edition of CBSE New Pattern Chemistry for Class 11 Term 1 that is designed to cover all the Term I chapters as per rationalized syllabus in a Complete Assertion Reasoning Based MCQs and Cased MCQs for the overall preparation Detailed Explanations of the selected questions help students to get the pattern and questions as well Lastly 3 Practice Questions are provided for the revision of the concepts TOC Some Basic Concept of Chemistry Structure of Atom Classification of Elements and Periodicity in Properties Chemical Bonding and Molecular Structure Redox Reactions Hydrogen Organic Chemistry Some Basic Principles and Techniques Practice Papers 1 3

Chemistry for the Utterly Confused John T. Moore, Richard H. Langley, 2007-06-01 Banish bafflement in this tough subject From formulas and lab techniques to the periodic table Chemistry for the Utterly Confused focuses on the areas of maximum confusion and breaks down the most difficult chemistry topics into easy to understand concepts This invaluable guide also teaches problem solving skills you need to master this imposing subject Whether you re in high school in college or simply brushing up on chemistry knowledge this fun easily accessible book will make understanding chemistry a breeze

Chemistry Questions - Answers for Intermediate Mr. Ajeet Singh, 2018-05-13 A question answer formatted book designed for intermediate level chemistry students covering theory based and numerical questions to aid learning and exam preparation

Khanna's Multichoice Questions & Answers in Metallurgical Engineering O.P. Gupta, This book is meant for diploma degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs This book has been structured in three section First section contains multiple choice type questions of various subjects of metallurgical engineering Second section contains chapter wise question of GATE Graduate Aptitude Test in Engineering from 1991 to 2016 Third section contains SHORT QUESTIONS ANSWERS in METALLURGICAL ENGINEERING Fourth section contains APPENDICES containing Glossary of terms related to

Metallurgical Engineering and Q A of GATE 2017 This book has been designed to serve as Hand Book of Metallurgical Engineering which will be useful for various competitive examinations for recruitment in various public sector Private Sector companies as well as for GATE Examination Question have been arranged subject wise and answers are given at the bottom of the page

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Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg,2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change *Human Biology* Daniel D. Chiras,2005 Intended for non majors this textbook describes the structure and functions of each human body system explores the body processes that regulate chemical levels in the blood and body temperature and overviews genetics human reproduction and evolution The fifth edition trims the overall length by 20% while adding short essays on past scientific

Partial Solutions Manual Darrell D. Ebbing,David Bookin,1998 *CUET PG Nanoelectronics Question Bank (2400 MCQs Chapterwise)* Mocktime Publication, CUET PG Nanoelectronics Question Bank 2400 MCQs Chapterwise CUET PG Exam Pattern CUET PG Syllabus CUET PG Previous Papers Books Notes *Educart CBSE Class 12 Chemistry One Shot Question Bank 2026 (Includes PYQs for 2025-26)* ,

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Structure & Function of the Body - E-Book Kevin T. Patton, Frank B. Bell, Terry Thompson, Peggie L. Williamson,2024-06-25 Gain a solid foundation in A P with this easy to understand text Clear and straightforward Structure Function of the Body 17th Edition introduces the typical structure and function of the human body and describes what the body does to maintain homeostasis The book shows how structure fits function using clinical

examples to reinforce A P concepts and featuring hundreds of photos and micrographs for realistic visual detail Written by a team of experts led by Kevin Patton this text includes an Evolve website packed with animations audio pronunciations review questions and other interactive learning resources NEW Updated content is added and new line art and photos ensure wider representation of skin color sex age body type and cultural diversity NEW Inclusive terminology reduces the emphasis on eponyms for example the term normal is more carefully used to avoid implying that healthy conditions outside the average are abnormal NEW The latest scientific thinking introduces or expands upon emerging core concepts such as the human microbiome with a new diagram illustrating the changes in the microbiome throughout the human life cycle Clear conversational writing style is paired with chunked content which breaks down the material into smaller bite sized bits of information that are easier to read and understand More than 400 full color photos micrographs and drawings illustrate the diversity and detail of the human body Language of Science and Medicine lists in each chapter includes key terms pronunciations and word parts to highlight new or complex medical terminology NEW Updated Connect It boxes refer you to articles on Evolve that integrate concepts and discuss the latest clinical developments and scientific research showing the big picture of human structure and function NEW Updated Science Application boxes discuss possible career paths within the context of a diversity of historical figures and their life stories NEW Quick Guide to the Language of Science and Medicine is added to Evolve helping you learn medical terminology without the need for a separate textbook UNIQUE 22 page Clear View of the Human Body insert allows you to peel back the layers of the human body both male and female by flipping through full color semi transparent pages Student friendly features make learning easier with chapter outlines chapter objectives key terms study hints frequent Quick Check questions chapter summaries review questions critical thinking questions chapter tests and more Boxed sidebars include Health and Well Being Clinical Application Research Issues and Trends and Science Applications to help you apply concepts and develop critical thinking skills Resources on the Evolve website include animations audio summaries audio pronunciations the Body Spectrum anatomy coloring book review questions and FAQs with answers from the authors [Alcamo's Fundamentals of Microbiology](#) , *Alcamo's Fundamentals of Microbiology* Jeffrey C. Pommerville, 2010-03-08 The ninth edition of award winning author Jeffrey Pommerville s classic text provides nursing and allied health students with a firm foundation in microbiology with an emphasis on human disease An educator himself Dr Pommerville incorporates accessible engaging pedagogical elements and student friendly ancillaries to help students maximize their understanding and retention of key concepts Ideal for the non major the ninth edition includes numerous updates and additions including the latest disease data and statistics new material on emerging disease outbreaks an expanded use of concept maps and many other pedagogical features With an inviting Learning Design format and Study Smart notes to students Alcamo s Fundamentals of Microbiology Ninth Edition ensures student success as they delve into the exciting world of microbiology *Chemistry* , 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the

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