

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

Answer Key For Bonding Ionic And Covalent Read

O.P. Gupta



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Reading and Writing in Science Maria C. Grant, Douglas Fisher, 2010 Written by a science educator and a literacy expert this resource gives secondary science teachers an approach for developing students disciplinary literacy so they can access science content , **Princeton Review AP Chemistry Premium Prep, 27th Edition** The Princeton Review, 2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 WITH THE MOST PRACTICE ON THE MARKET Equip yourself to ace the newly digital AP Chemistry Exam with this comprehensive study guide Includes 7 full length practice tests with answer explanations timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Comprehensive content review for all test topics Online digital flashcards to review core content Study plans a handy list of key terms and concepts and more via your online Student Tools Premium Practice for AP Excellence 7 full length practice tests 5 in the book 2 online with detailed answer explanations Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking the exam interface Review of important laboratory procedures and equipment Practice drills at the end of each content review chapter plus step by step walk throughs of sample exam questions **Chemical Structure and Reactivity** James Keeler, Peter Wothers, 2013-11 Why do certain substances react together in the way that they do What determines the shape of molecules And how can we predict whether a particular reaction will happen at all Such questions lie at the heart of chemistry the science of understanding the composition of substances their reactions and properties Though introductory chemistry is often broken into three sections inorganic organic and physical the only way for students to fully understand the subject is to see it as a single unified whole Chemical Structure and Reactivity rises to the challenge of depicting the reality of chemistry Offering a fresh approach to the subject by depicting it as a seamless discipline the text shows how organic inorganic and physical concepts can be blended together in order to achieve the common goal of understanding chemical systems With a lively and engaging writing style enhanced by vivid illustrations only Chemical Structure and Reactivity makes teaching chemistry with an integrated approach possible Special Features The only introductory text to take a truly integrated approach in explaining the fundamentals of chemistry Fosters an orbital based understanding of reactions with clear curly arrow mechanistic detail throughout A two part structure allows flexibility of use Part I lays down the core of the subject while Part II describes a series of relatively standalone topics which can be selected to fit a particular course Numerous concepts are illustrated with fully cross referenced custom developed online modules enabling students to develop an understanding through active learning Self test exercises embedded in the text with solutions at the end of each chapter and extensive question sets encourage hands on learning to help students master the subject and gain confidence The Online Resource Centre features a

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 *Focus on physical science* Charles H. Heimler,1989 **Educart Term 2 Biology CBSE Class 12 Objective & Subjective Question Bank 2022 (Exclusively on New Competency Based Education Pattern)** EduCart,2021-12-28

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