

BIO 181 Lecture 4: Chemistry of Life

1. Define polar and nonpolar bonds using complete sentences. In your definition, make it clear what criteria you use to determine if a bond is polar or nonpolar.

Polar bonds are a type of covalent bond, they do not share electrons. Non polar bonds share electrons. You can tell the difference between the two because in polar bonds, the difference in the atom's electronegativity is greater than 0.4, and in nonpolar bonds the difference is less than 0.4.

2. How are ionic bonds and covalent bonds different?

Ionic bonds are from a transfer of electrons while covalent bonds are from the sharing of electrons.

3. What does electronegativity mean?

Electronegativity is an atom's likeness to attract shared electrons.

4. How do electronegativity values help us determine the type of bond created?

Larger differences in electronegativity are polar or ionic bonds, and smaller differences in electronegativity are covalent bonds.

5. For each of the following molecules in the table below, determine if it is polar, nonpolar, or ionic. Show your work by listing the electronegativities of each element in the bond.

molecule	Electronegativity values	Difference in electronegativity	Bond type
H-Cl	H: 2.2 Cl: 3.16	1	polar
H-H	H: 2.2 H: 2.2	0	nonpolar
H-I	H: 2.2 I: 2.66	0.5	polar
Cl-Cl	Cl: 3.16 Cl: 3.16	0	nonpolar

Bio 181 Lab Manual Answers

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Gilman, Brian Peterson**



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Recombinant DNA Laboratory Manual, Revised Edition Judith W. Zyskind, Sanford I. Bernstein, 2012-12-02 The latest edition of this introductory benchtop manual is up to date affordable and easy to follow This text is perfect for your two quarter or one semester course in Recombinant DNA Techniques and is specifically designed to lead your student or technician who is a newcomer to molecular biology from the basic skills of growing and maintaining bacterial colonies through plasmid DNA isolation cloning DNA sequencing and hybrid detection Comb bound three column large 9 1 4 x 7 1 2 format Exercises contain explanatory material and margin notes that pinpoint critical steps and important concepts Necessary reagents and equipment are presented in a checklist at the beginning of each protocol Techniques for bacteria are complemented with those for Drosophila Each experiment has been tested in the laboratory by students for five years Features a complete chapter on computers in the molecular biology laboratory Presents helpful appendixes on safety in the laboratory frequently used ancillary techniques and recipes for buffers media and strains *The Kewaunee Book of Laboratory Furniture* Kewaunee Manufacturing Company, 1923 Instructor's Manual for Perry and Morton's Laboratory Manual for Starr and Taggart's Biology, the Unity and Diversity of Life and Starr's Biology, Concepts and Applications Joy B. Perry, 1992 **Laboratory Manual for Bio 181** Glendale Community College (Maricopa County, Ariz.). Biology Department, 1990 **Laboratory Manual for Human Biology** Bert Atsma, Sandra Hsu, 2007-02 Designed for the one semester human biology course this full color manual offers activities for 23 laboratory sessions in a variety of formats to allow the instructor to customize these exercises to the needs of their course The lab manual s depth of coverage invites students to explore fundamental concepts of human biology in a laboratory setting **Forensic DNA Biology** Kelly M. Elkins, 2012-08-03 DNA typing has revolutionized criminal investigations and has become a powerful tool in the identification of individuals in criminal and paternity cases Forensic DNA Biology A Laboratory Manual is comprised of up to date and practical experiments and step by step instructions on how to perform DNA analysis including pipetting microscopy and hair analysis presumptive testing of body fluids and human DNA typing Modern DNA typing techniques are provided reflecting real life where not all institutions and crime labs can afford the same equipment and software Real case studies will be used throughout Provides practical step by step instruction on how to perform forensic DNA analysis Includes analysis of hair presumptive testing of body fluids human DNA typing and statistics Covers techniques such as pipetting microscopy and DNA extraction Pre and post lab exercises and questions assist the reader in learning the material Report writing templates assure the reader learns real world crime lab procedure **Forthcoming Books** Rose Arny, 2001-08 **Using the Biological Literature** Diane Schmidt, 2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries

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