

UNIT 1 NOTES

Biological Chemistry Review

Why study Chemistry in Biology?

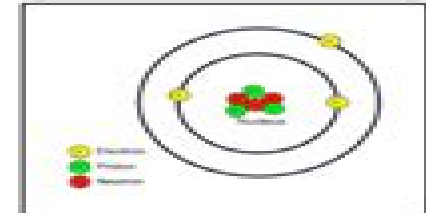
- The understanding of the basic chemistry of life is vital to a full comprehension of biology.
- Important atoms include:
 - Oxygen (O)
 - Carbon (C)
 - Hydrogen (H)
 - Nitrogen (N)
 - Phosphorous (P)
 - Potassium (K)
 - Sulphur (S)

Atoms:

Atom = smallest part of an element that displays the properties of that element

- Made up of 3 subatomic particles:
 - Protons (positively charged)
 - Neutrons (uncharged / neutral)
 - Electrons (negatively charged) – found outside of the nucleus

Found in the nucleus



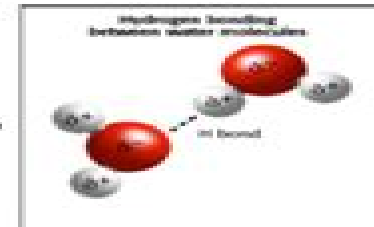
Ions:

Ions = atoms that have gained or lost electrons

- Signified by either (+) or (-)
- Ex. Na^+ , K^+ , Cl^- , Ca^{2+}

Types of bonding:

- Ionic bonds:**
 - Transfer of electrons from a metal (positive ion) to a non-metal (negative ion)
- Covalent bonds:**
 - Atoms share electrons between 2 non-metals
 - Can be single covalent bond (sharing 2 electrons), double covalent bond (sharing 4 electrons) or triple covalent bond (sharing 6 electrons)
 - Nonpolar covalent bonds**
 - Electrons shared fairly equally between atoms
 - Polar covalent bonds**
 - Unequal** sharing of electrons
- Hydrogen bonds:**
 - When a covalently bonded H within a molecule (eg H_2O) is also attracted to another atom (usually O, N or F) of a **different** molecule.
 - Always represented by dotted lines



Inorganic Compounds:

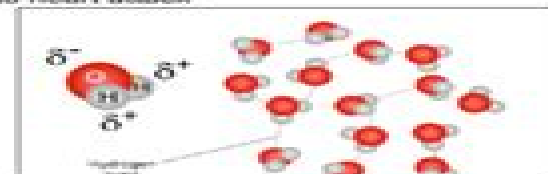
Inorganic Compounds	Organic Compounds
Usually metal + non-metal	Always contain carbon and hydrogen
Usually ionic bonding	Always covalent bonding
Associated with non-living	Associated with living things
Ex. Salts, water, acids, bases, buffers	Ex. Carbohydrates, lipids, proteins and nucleic acids

A. Salts:

- Needed for survival
- Too little → fatigue, exhaustion, cramps, nausea, thirst, decrease in blood pressure and even death
- Too much → dehydration of cells and hypertension; can lead to heart attack

B. Water:

- Structure of water:
- Biological importance is due to its chemical structure
- Water is a polar molecule
 - How does polarity of water produce H-bonding?
 - Oxygen is bigger & negatively charged
 - H is smaller & positively charged



Review Biological Chemistry Section 2 Answer Sheet

JE Gale



Review Biological Chemistry Section 2 Answer Sheet:

Chapter Resource 2 Chemistry of Life Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

CLEP® General Exams Book + Online, 9th Ed. Stu Schwartz, Laurie Callihan, Scott Dittloff, 2018-01-30 CLEP General Exams Book Online Practice Tests Helps Students Get the College Credits They Deserve 9th Edition In 2017 CLEP marks 50 years as the most widely trusted credit by exam program in the U S CLEP exams help students fast track their college degree saving them time and possibly thousands in tuition costs Perfect for adults returning to college military service members high school or home schooled students REA s CLEP test preps provide students with the tools they need to pass their CLEP exams and get the college credits they deserve REA s new 9th edition of the CLEP General Exams bundles complete test prep for the four CLEP general exams College Mathematics Humanities Natural Sciences Social Sciences History that satisfy typical first year general education requirements These are the courses for which most community and military friendly colleges will award CLEP credit About REA s Prep Complete test prep for the 4 CLEP general exams College Mathematics Humanities Natural Sciences and Social Sciences History Great consumer value only 34 95 4 comprehensive review sections 1 for each CLEP exam 4 online diagnostic tests 1 for each CLEP exam 8 full length practice tests 2 for each CLEP exam Online diagnostic and practice tests feature instant scoring timed testing diagnostic feedback and detailed answers [Molecular Biology Questions and Answers PDF](#) Arshad Iqbal, The Molecular Biology Quiz Questions and Answers PDF Molecular Biology Competitive Exam Questions Chapter 1 19 Practice Tests Class 8 12 Biology Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Molecular Biology Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Molecular Biology Quiz PDF book helps to practice test questions from exam prep notes The Molecular Biology Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Molecular Biology Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Aids bioinformatics biological membranes and transport biotechnology and recombinant DNA cancer DNA replication recombination and repair environmental biochemistry free radicals and antioxidants gene therapy genetics human genome project immunology insulin glucose homeostasis and diabetes mellitus metabolism of xenobiotics overview of bioorganic and biophysical chemistry prostaglandins and related compounds regulation of gene expression tools of biochemistry transcription and translation tests for college and university revision guide Biology Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Molecular Biology Interview Questions Chapter 1 19 PDF book includes high school question papers to review practice tests for exams Molecular Biology Practice Tests a textbook s revision guide with chapters tests for NEET MCAT MDCAT SAT ACT competitive exam Molecular Biology Questions Bank Chapter 1 19 PDF book covers problem solving exam tests from life sciences textbook and practical eBook chapter wise as

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Macaulay, Molly M. Bloomfield, Joseph M. Bauer, 2013-02-04 This General Organic and Biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry An integrated approach is employed in which related general chemistry organic chemistry and biochemistry topics are presented in adjacent chapters This approach helps students see the strong connections that exist between these three branches of chemistry and allows instructors to discuss these interrelationships while the material is still fresh in students minds **Resources in Education** ,1998 Differential Equations And Applications To Biology And To Industry - Proceedings Of The Claremont International Conference Dedicated To The Memory Of Stavros Busenberg (1941 - 1993) Kenneth Cooke, Ellis Cumberbatch, Mario Martelli, Betty Tang, Horst Thieme, 1995-12-08 This volume is dedicated to the memory of Professor Stavros Busenberg of Harvey Mudd College who contributed so greatly to this field during 25 years prior to his untimely death It contains about 60 invited papers by leading researchers in the areas of dynamical systems mathematical studies in ecology epidemics and physiology and industrial mathematics Anyone interested in these areas will find much of value in these contributions **Chemistry of Food and Nutrition** Henry Clapp Sherman, 1926 **Kaplan SAT Subject Test Biology E/M 2015-2016** Kaplan Test Prep, 2015-03-03 Essential strategies practice and review to ace the SAT Subject Test Biology E M Getting into a top college has never been more difficult Students need to distinguish themselves from the crowd and scoring well on a SAT Subject Test gives students a competitive edge Kaplan s SAT Subject Test Biology E M is the most up to date guide on the market with complete coverage of both the content review and strategies students need for success on test day Kaplan s SAT Subject Test Biology E M features A full length diagnostic test 2 full length practice tests Focused chapter summaries highlights and quizzes Detailed answer explanations Proven score raising strategies End of chapter quizzes Kaplan is serious about raising students scores we guarantee students will get a higher score **Essentials of Biology** Holt Rinehart & Winston, 1998 *East European Accessions Index* ,1960 **Industrial and Engineering Chemistry** ,1924 Commercial Fisheries Abstracts ,1960

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