

Biology Exam #2 (Chapters 2, 3, 4, 6, 7, 8)

Chapter 2:

Atoms are made up of electrons (- outside the nucleus), protons(+inside the nucleus), and neutrons (0 inside the nucleus)

Atomic number= number of protons

Mass number=protons + nucleus

Matter is composed of elements and exists as solid, liquid, gas, or plasma

Element: a substance that cannot be broken down by chemical means to a simpler substance that has different physical properties.

Basic elements to life include C, H, N, O, P, S

Life's diversity is based on carbon, almost all the molecules of a cell are composed of carbon

Organic molecules: carbon-based molecules, molecules have C and H, those with only C and H are called hydrocarbons

Isotopes: atoms of an element with different number of neutrons

Radioactive isotope emits energy as rays and subatomic particles

Uses of radiation include medical imaging, killing bacteria and fungi, killing cancer cells

For neutral atoms, the number of valence electrons is equal to the atom's main group number

ATP: currency of the cell, high energy molecule, undergoes hydrolysis which releases energy

Polar covalent bonds: sharing between two atoms that is unequal

Oxygen is more electronegative than Hydrogen

Second strongest

Nonpolar covalent bonds: sharing of electrons between two atoms is fairly equal

Strongest

Carbon bonds: four electrons on outer shell

Electronegativity: attraction of an atom for electrons in covalent bond

Hydrogen bonding: attraction between negative oxygen and positive hydrogen

Bonds is weak individually, but strong together(weakest)

Biology Study Answers

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General Biology Study Guide for Biology 1010 - Answers - Ebook Heather Wilson Ashworth, 2015-08-06 Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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School Science and Mathematics ,1916 The Methodist Review ,1894 Proceedings of the ... Annual Session of the Wisconsin Teachers' Association Wisconsin Teachers' Association,1912 **Modern Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006-01-01 A Digest of Investigations in the Teaching of Science Francis Day Curtis,1926 *Types of Learning Required of Pupils in the Seventh and Eighth Grades in the High School* University of Illinois (Urbana-Champaign campus). Bureau of Educational Research,Walter Scott Monroe,1921 **Types of Learning Required of Pupils in the Seventh and Eighth Grades in the High School** Walter Scott Monroe,1921 Bureau of Educational Research Announcement, 1918-19 Burdette Ross Buckingham,1918 *Annual Report* Wisconsin Education Association,1912 *Collected Papers from the Institute for Biological Research of the Johns Hopkins University* ,1929

Journal of Dental Research ,1919 Scientific proceedings of dental and stomatological societies issued as separately paged section in v 1 5 School and Society ,1924

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