

# Biology 243 Exam Review Part 3

1. Attraction of oppositely charged ions
  2. Atoms share 2 or more valence electrons
  3. Atom's affinity for electrons
  4. Equal sharing of electrons
  5. Unequal sharing of electrons
  6. Attraction between partial negative and partial positive charges
  7. Chemical Reactions that occur within the cells
  8. Reactions that break down molecule into smaller fragments
  9. Decomposition reaction involving water
  10. Decomposition of complex molecules in cells and tissues
  11. Formation of new chemical bonds
  12. Synthesis reaction of water
  13. Synthesis of complex molecules within cells and tissues
  14. Parts of the reacting molecules are shuffled around to produce new products
  15. Electrons are exchanged between reactants
  16. Increases  $[H^+]$  when dissolved in a solution
  17. pH will go down
  18. Increases  $[OH^-]$  when dissolved in a solution
  19. pH will go up
  20. System of molecules and ions that resist changes in pH
  21. Contain carbon
  22. Chainlike molecules made up by monomers
  23. Building blocks of polymers
  24. Simple sugars
- A. Decomposition
  - B. Sodium hydroxide
  - C. Oxidation-reduction
  - D. Hydrogen bond
  - E. Monosaccharides
  - F. Synthesis
  - G. Electronegativity
  - H. Covalent bond
  - I. Buffers
  - J. Catabolism
  - K. Hydrolysis reaction
  - L. Metabolism
  - M. Exchange
  - N. Anabolism
  - O. Hydrochloric acid
  - P. Ionic bond
  - Q. Hydrolysis
  - R. Acid
  - S. Monomers
  - T. Nonpolar covalent bonds
  - U. Organic molecules
  - V. Base
  - W. Dehydration reaction
  - X. Polar covalent bonds

25. Building a polymer

Y. Dehydration

26. Breaking down a polymer

Z. Polymers