

Study Guide for Midterm 1

1. Examples of monosaccharides, disaccharides, polysaccharides
2. Effects of hypotonic, hypertonic and isotonic solutions on a blood cell
3. Functions of both kinds of E.R., mitochondria, cilia, flagella, chloroplasts, leucoplasts, microfilaments, lysosomes, microtubules, Golgi complex,
4. Electrons, protons and neutrons, atomic number, atomic mass, atomic model structure
5. Ions-examples and which have gained or lost electrons
6. Building blocks for proteins, polysaccharides, fluid mosaic model of cell membrane, cytoskeleton
7. Know these words: diffusion, osmosis, cytolysis, plasmolysis, phagocytosis, peptide bond, pH
8. Know differences between plant and animal cells
9. Know the different types of proteins (integral, transmembrane etc.)
10. People to know: Hooke, Leuwenhoek,
11. Know kinds of transport: active, passive, facilitated diffusion, etc.
12. Know how to compute magnification and resolution
13. Study the molecules shown in the biochemistry powerpoint handout (the ones I told you to study)
14. Study the cell diagram
15. Be sure that enzymes, substrates, enzyme optima, plus pH and temperature effects on enzymes are in your grasp.
16. **Read the book carefully!**