#### STUDENT STUDY GUIDE for APHY 101 ONLINE

The following is a list of all the main concepts that you need to know to succeed on the Anatomy and Physiology 101 final exam. This is a guide to help you focus your studies. Remember to also use the LearnSmart modules and your previous exams/quizzes to help you prepare for the exam.

#### Chapter 1- Introduction to Human Anatomy and Physiology

- What is the difference between anatomy and physiology?
- What are the levels of organization and define each.
- What are the characteristics of life and define each.
- 4. What are the requirements of life? Why is each important?
- Define homeostasis.
- 6. What is a homeostatic mechanism?

#### Chapter 2 - Chemical Basis of Life

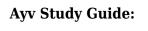
- Define matter, element and atom. What is the basic unit of matter?
- What is the structure of an atom?
- 3. Define nucleus, proton, neutron and electron. What charges do each of these particles have?
- 4. What are covalent, ionic and hydrogen bonds? What are the differences among the three?
- Define synthesis, decomposition and exchange reactions.
- 6. What is a reactant? a product?
- Define catalyst.
- 8. What happens and what is produced when salts dissolve in water?
- 9. What is an acid? a base?
- 10. What is the pH scale? What ions are involved in the pH scale?
- 11. What is the difference between an organic molecule and an inorganic molecule?
- 12. What is dehydration synthesis and hydrolysis?
- 13. What are carbohydrates, lipids, proteins and nucleic acids?
- 14. Explain the structure of a triglyceride, phospholipid and steroid molecule. What are the functions of each of these molecules?
- 15. What is an amino acid?
- 16. What are enzymes?
- 17. What are the differences between DNA and RNA?

#### Chapter 3 - Cells

- 1. Describe these parts of a cell: cell membrane, nucleus, cytoplasm, cytosol and organelles.
- 2. What are the functions of the cell membrane?
- 3. What is the structure of the cell membrane?
- 4. What are the primary functions of each of these organelles: rib-osome, smooth ER, rough ER, Golgi apparatus, mitochondria, lysosome, peroxisome, centrosome, cilia, flagella, vesicle.
- What are the functions of these parts of the nucleus: nuclear envelope, nuclear pores, nucleolus, chromatin.
- Define diffusion, osmosis, facilitated diffusion, filtration, active transport, endocytosis (phagocytosis, pinocytosis), exocytosis, and transcytosis. Which of these requires energy

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