

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

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

Chapter 2 – Chemical Basis of Life

1. Define matter, element and atom. What is the basic unit of matter?
2. 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?
5. Define synthesis, decomposition and exchange reactions.
6. What is a reactant? a product?
7. 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: ribosome, smooth ER, rough ER, Golgi apparatus, mitochondria, lysosome, peroxisome, centrosome, cilia, flagella, vesicle.
5. What are the functions of these parts of the nucleus: nuclear envelope, nuclear pores, nucleolus, chromatin.
6. Define diffusion, osmosis, facilitated diffusion, filtration, active transport, endocytosis (phagocytosis, pinocytosis), exocytosis, and transcytosis. Which of these requires energy

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IM Harris



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