

STUDENT STUDY GUIDE for APHY 101 MIDTERM

The following is a list of all the main concepts from the first 6 chapters of the textbook. 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?

Anatomy examines the structures, physiology considers the functions

2. What are the levels of organization and define each.

Subatomic particles- particles smaller than an atom

Atoms- tiny particles that make up materials

Molecules- atoms joined together

Macromolecules- small molecules joined together

Organelles- structures in a cell that perform specific activities

Cells- the basic unit of structure and function

Tissue- layers or masses of specialized cells that have a specific function

Organs- formed by groups of tissues to perform certain functions

Organ systems- groups of organs that function closely together

Organisms- made of interacting organ systems

3. What are the characteristics of life and define each.

Growth- increase in cell number and size/increase in body size

Reproduction- production of new cells and organisms

Responsiveness- reaction to a change inside or outside the body

Movement- change in body position or location/motion of internal organs

Metabolism- the sum of all chemical reactions in a living system/energy & nutrient cycling

4. What are the requirements of life? Why is each important?

Water- required for metabolism, provides environment, carries substances

Food- provides energy for cellular life

Oxygen- required for aerobic metabolism

Heat- form of energy that helps determine rate of metabolism and chemical reactions

Pressure- differences in pressure allow breathing to occur and blood to flow

5. Define homeostasis.

The maintenance of a relatively constant internal environment

6. What is a homeostatic mechanism?

A self-regulating control system based on feedback loops

Chapter 2 – Chemical Basis of Life

1. Define matter, element, and atom. What is the basic unit of matter?

Matter- anything that has weight and occupies space

Element- any fundamental chemical substance, each characterized by a distinct type of atom

Atom- smallest particle of an element that has the properties of that element (basic unit)

2. What is the structure of an atom?

An atom has a central nucleus and one or more electrons that moves around the nucleus. The nucleus contains one or more protons and usually also has neutrons.

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