

Chapter 1

Overview of Anatomy and Physiology

Anatomy: is the scientific study of the body's structures

Anatomy is broken down into 4 different branches:

Macroscopic or gross anatomy- is the study of the larger structures of the body, those visible without the aid of magnification. (Macro- means "large")

Microscopic anatomy- is the study of structures that can be observed only with the use of a microscope or other magnification devices. (Micro- means "small")

- **Cytology-** the study of cells
- **Histology-** the study of tissues.

Regional anatomy- is the study of the interrelationships of all the structures in a specific body region, such as the abdomen.

Systemic anatomy- is the study of the structures that make up a discrete body system.

Which of the types of anatomy are specialization areas?

Which of the types of anatomy are approaches of studying anatomy?

How are all the branches of anatomy similar?

Physiology- is the scientific study of the chemistry and physics of the structures of the body and the ways in which they work together to support the functions of life.

Homeostasis- is the state of steady internal conditions maintained by living things.

Structural Organization of Human Body

Levels of organization in the human body order from smallest to most complex:

Subatomic particles- atoms and molecules

Atoms- are made up of subatomic particles such as the proton, electron and neutron.

Molecules- Two or more atoms combine to form a molecule.

Organelles- are specialized structures that perform various jobs inside cells. The term literally means "little organs." In the same way organs, such as the heart, liver, stomach, and kidneys, serve specific functions to keep an organism alive, organelles serve specific functions to keep a cell alive.

Cells- is the smallest independently functioning unit of a living organism. A human cell typically consists of flexible membranes that enclose cytoplasm. Cells perform all functions of life.

- **Cytoplasm-** is a water-based gelatinous liquid that fills the inside of a cell. It is composed of water, salts, and various organic molecules.

Tissues- is a group of many similar cells that work together to perform a specific function.

Organs- is an anatomically distinct structure of the body composed of two or more tissue types. Each organ performs one or more specific physiological functions.

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Table of Contents Anatomy And Physiology Chapter 1 Review Greenville

1. Understanding the eBook Anatomy And Physiology Chapter 1 Review Greenville
 - The Rise of Digital Reading Anatomy And Physiology Chapter 1 Review Greenville
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Chapter 1 Review Greenville
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Chapter 1 Review Greenville
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Chapter 1 Review Greenville
 - Personalized Recommendations
 - Anatomy And Physiology Chapter 1 Review Greenville User Reviews and Ratings

- Anatomy And Physiology Chapter 1 Review Greenville and Bestseller Lists
- 5. Accessing Anatomy And Physiology Chapter 1 Review Greenville Free and Paid eBooks
 - Anatomy And Physiology Chapter 1 Review Greenville Public Domain eBooks
 - Anatomy And Physiology Chapter 1 Review Greenville eBook Subscription Services
 - Anatomy And Physiology Chapter 1 Review Greenville Budget-Friendly Options
- 6. Navigating Anatomy And Physiology Chapter 1 Review Greenville eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy And Physiology Chapter 1 Review Greenville Compatibility with Devices
 - Anatomy And Physiology Chapter 1 Review Greenville Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Chapter 1 Review Greenville
 - Highlighting and Note-Taking Anatomy And Physiology Chapter 1 Review Greenville
 - Interactive Elements Anatomy And Physiology Chapter 1 Review Greenville
- 8. Staying Engaged with Anatomy And Physiology Chapter 1 Review Greenville
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Chapter 1 Review Greenville
- 9. Balancing eBooks and Physical Books Anatomy And Physiology Chapter 1 Review Greenville
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Chapter 1 Review Greenville
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Anatomy And Physiology Chapter 1 Review Greenville
 - Setting Reading Goals Anatomy And Physiology Chapter 1 Review Greenville
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anatomy And Physiology Chapter 1 Review Greenville
 - Fact-Checking eBook Content of Anatomy And Physiology Chapter 1 Review Greenville
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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