

THE HUMAN BODY: AN ORIENTATION

Anatomy

- study of the structure and shape of the body and its parts.
- Observation is used to see sizes and relationships of parts.
- Open up the body if studying the structure inside.

Physiology

- study of how the body and its parts work or function.

TOPICS OF ANATOMY

Gross Anatomy/ Macroscopic Anatomy

- large structures
 - Easily observable
- e.g. heart, lungs, and kidneys

- **Regional Anatomy** - all structures in a particular region of the body, such as the abdomen or leg, are examined at the same time.
- **Systemic Anatomy** - body structure is studied by system.
- **Surface Anatomy** - study of the internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- deals with small structures.
- Structures are too small to be seen with the naked eye.
- Cells and tissues can be viewed only with a microscope.
- **Cytology** - different cells of the body.
- **Histology** - study of tissues.

Developmental Anatomy

- traces structural changes that occur in the body throughout the lifespan.
- **Embryology** - developmental changes that occur before birth.

Pathological Anatomy

- studies structural changes caused by disease.

Radiographic Anatomy

- studies internal structures as visualized by x-ray images or specialized scanning procedures.

Molecular Biology

- structure of biological molecules is investigated.

TOPICS OF PHYSIOLOGY

Renal Physiology

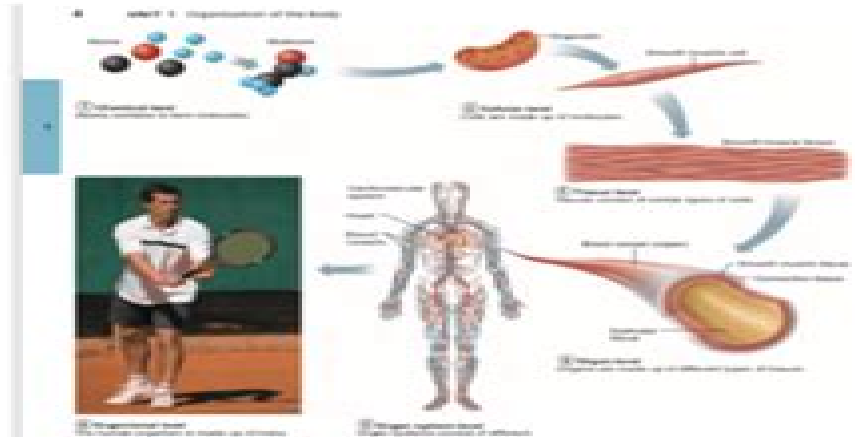
- kidney function and urine production.

Neurophysiology

- explains workings of the nervous system

Cardiovascular Physiology

- examines operation of the heart and blood vessels.



PRINCIPLE OF COMPLEMENTARY STRUCTURE AND FUNCTION

- Bones can support and protect body organs because they contain hard mineral deposits.
- Blood flows in one direction through the heart because the heart has valves that prevent backflow.

LEVELS OF STRUCTURAL ORGANIZATION

Chemical Level

- simplest level of structural hierarchy.
- Atoms combine to form molecules such as water and proteins.
- Molecules associate to form organelles.

Cellular Level

- all cells have some common functions.
- Simplest living creatures are single cells.

Tissue Level

- tissues are groups of similar cells that have a common function.
- Four basic types are epithelium, muscle, connective tissue, and nervous tissue.

Epithelium: covers the body surface and lines its cavities.

Muscle: Provides movement

Connective tissue: supports and protects body organs.

Nervous tissue: Provides a means of rapid internal communication by transmitting electrical impulses.

Organ Level

- organ is a discrete structure composed of at least two tissue types that performs a specific function for the body.

Organ System Level

Lecture Notes On Human Physiology

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Table of Contents Lecture Notes On Human Physiology

1. Understanding the eBook Lecture Notes On Human Physiology
 - The Rise of Digital Reading Lecture Notes On Human Physiology
 - Advantages of eBooks Over Traditional Books
2. Identifying Lecture Notes On Human Physiology
 - 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 Lecture Notes On Human Physiology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lecture Notes On Human Physiology
 - Personalized Recommendations
 - Lecture Notes On Human Physiology User Reviews and Ratings
 - Lecture Notes On Human Physiology and Bestseller Lists
5. Accessing Lecture Notes On Human Physiology Free and Paid eBooks
 - Lecture Notes On Human Physiology Public Domain eBooks
 - Lecture Notes On Human Physiology eBook Subscription Services
 - Lecture Notes On Human Physiology Budget-Friendly Options
6. Navigating Lecture Notes On Human Physiology eBook Formats

- ePub, PDF, MOBI, and More
- Lecture Notes On Human Physiology Compatibility with Devices
- Lecture Notes On Human Physiology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lecture Notes On Human Physiology
 - Highlighting and Note-Taking Lecture Notes On Human Physiology
 - Interactive Elements Lecture Notes On Human Physiology
- 8. Staying Engaged with Lecture Notes On Human Physiology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lecture Notes On Human Physiology
- 9. Balancing eBooks and Physical Books Lecture Notes On Human Physiology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lecture Notes On Human Physiology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lecture Notes On Human Physiology
 - Setting Reading Goals Lecture Notes On Human Physiology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lecture Notes On Human Physiology
 - Fact-Checking eBook Content of Lecture Notes On Human Physiology
 - 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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