

ANATOMY AND PHYSIOLOGY

THE HUMAN BODY – AN ORIENTATION

Anatomy

- ⇒ Studies the structure of body parts and their relationships.

Physiology

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

Pathophysiology

- ⇒ Extract invertase from Bayer's yeast

ANATOMY – LEVELS OF STUDY

Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- ⇒ Approached of study: **Regional and Systemic Anatomy**

Surface Anatomy

- ⇒ Study of internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- ⇒ Structures cannot be seen with the naked eye
- ⇒ Structures can only be viewed with a microscope
- ⇒ Subdivisions include **cytology** and **histology**

Developmental Anatomy

- ⇒ Traces structural changes that occur in the body throughout the life span.
- ⇒ **Embryology** – concerns developmental changes that occur before birth.

LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
 1. **Position**
 2. **Direction**
 3. **Regions**
 4. **Structures**

Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- *Note:* Four legged animals have different anatomical position than humans
 - Their *ventral* is on the *inferior side* and *dorsal* in the *superior side*.
 - In humans, ventral and anterior is the same and so is dorsal and posterior.



Anatomy And Physiology Chapter

JG Myers



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Table of Contents Anatomy And Physiology Chapter

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

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