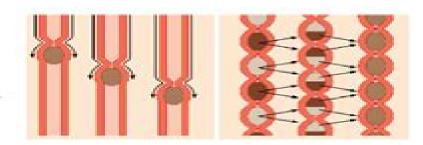
#### Chapter 23: Digestive System

#### Part 1: Overview

#### Major Processes

- Digestion: Breaks food down into smaller fragments
- Absorption: Digested fragments through its lining into blood or lymph
- Propulsion Movement of food via peristalsis
- Mechanical Breakdown: Chewing and churning via segmentation
- Defecation: Eliminate indigestible substances



#### Gil Tract

- Membanes
  - Peritoneum: Serous membranes of the abdominal cavity
    - Visceral Peritoneum: Organ's external surface
      - Serosa
      - Parietal Peritoneum: Lines body wall
  - Peritoneal Cavity: Fluid filled space between to peritoneums
  - Mesentery: Double layer peritoneum
    - Provide routes for blood vessles, lymphatics, nerves to reach digestive viscera.
    - Holds organs in place
    - Store fat.
- Mucora
  - Innermost layer
  - Secrete muscus, digestive enzymes, hormones
  - Absorbs end products of digestion into blood
  - Protect against infectious disease
  - Three Sublayers:
    - Lining Epithelium (Internal)
      - Simple columnar epithetlum
      - Protects certain digestive organs from being digested via enzymes working within their cavities and easies food passage
    - Lamina Propria
      - Loose areal ar connective tissue
      - Capillaries nourish the epithelium and absorb digested nutrients
      - Defend against bacteria and other pathogens
    - Muscularis Mucosae (External)
      - Smooth muscle cells
      - Produces local movements
      - Enhances absorption and secretion

# **Anatomy Physiology Chapter 23 The Digestive System**

**Gerard J. Tortora, Bryan H. Derrickson** 

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## Table of Contents Anatomy Physiology Chapter 23 The Digestive System

- 1. Understanding the eBook Anatomy Physiology Chapter 23 The Digestive System
  - The Rise of Digital Reading Anatomy Physiology Chapter 23 The Digestive System
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Anatomy Physiology Chapter 23 The Digestive System
  - Exploring Different Genres
  - o 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 Physiology Chapter 23 The Digestive System
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Anatomy Physiology Chapter 23 The Digestive System
  - Personalized Recommendations
  - Anatomy Physiology Chapter 23 The Digestive System User Reviews and Ratings
  - Anatomy Physiology Chapter 23 The Digestive System and Bestseller Lists
- 5. Accessing Anatomy Physiology Chapter 23 The Digestive System Free and Paid eBooks
  - Anatomy Physiology Chapter 23 The Digestive System Public Domain eBooks
  - Anatomy Physiology Chapter 23 The Digestive System eBook Subscription Services
  - Anatomy Physiology Chapter 23 The Digestive System Budget-Friendly Options

- 6. Navigating Anatomy Physiology Chapter 23 The Digestive System eBook Formats
  - o ePub, PDF, MOBI, and More
  - Anatomy Physiology Chapter 23 The Digestive System Compatibility with Devices
  - Anatomy Physiology Chapter 23 The Digestive System Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Anatomy Physiology Chapter 23 The Digestive System
  - Highlighting and Note-Taking Anatomy Physiology Chapter 23 The Digestive System
  - Interactive Elements Anatomy Physiology Chapter 23 The Digestive System
- 8. Staying Engaged with Anatomy Physiology Chapter 23 The Digestive System
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Anatomy Physiology Chapter 23 The Digestive System
- 9. Balancing eBooks and Physical Books Anatomy Physiology Chapter 23 The Digestive System
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Anatomy Physiology Chapter 23 The Digestive System
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Anatomy Physiology Chapter 23 The Digestive System
  - Setting Reading Goals Anatomy Physiology Chapter 23 The Digestive System
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anatomy Physiology Chapter 23 The Digestive System
  - Fact-Checking eBook Content of Anatomy Physiology Chapter 23 The Digestive System
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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