

# CHAPTER 6 - SKELETAL SYSTEM

## COMPONENTS:

- *Bones*
- *Joints & Associated Cartilages*

## SKELETAL

- Derived from Greek word meaning "*dried*"
- Consist of dynamic, living tissues that are able to grow, detect pain stimuli, adapt to stress & undergo repair after injury.
- **FRAMEWORK** to support the soft tissues of the body.

## MAJOR FUNCTIONS:

### 1.) SUPPORT

- Major supporting tissues of the body
- **Cartilages** – provides *firm yet flexible support* (ex. Nose, external ear, thoracic cage & trachea)
- **Ligaments** – strong bands of fibrous connective tissue that attach to bones & hold them together.

### 2.) PROTECTION

- Protects the organ it surrounds (Ex. Skull encloses and protects the brain)

### 3.) MOVEMENT

- **Tendons** – skeletal muscles *attach to bones*
- **Smooth Cartilages** – covers the ends of bones within some joints ; allowing the bones to *move freely*
- **Ligaments** – *allow some movements* between bones but prevent excessive movements

### 4.) STORAGE

- **Calcium & Phosphorus** – taken into bones and stored
- \* **Adipose tissue** – stored w/in bone cavities (fats)
- **Lipids** – Released into the blood and used by other tissues as a *source of energy*

### 5.) BLOOD CELL PRODUCTION

- Cavities filled with **red bone marrow**
  - produces blood cells & platelets

## EXTRACELLULAR MATRIX

- *Collagen (Tough rope-like proteins)*
- *Proteoglycans (Polysaccharides)*
- *Tendons (Collagen Fibers)*
- *Ligaments (Collagen Fibers)*
- *Cartilage (Collagen & Proteoglycans)*
- *Hydroxyapatite (Calcium Phosphate Crystals)*

## GENERAL FEATURES OF BONE

1. **LONG BONES**
  - Longer than they are wide
2. **SHORT BONES**
  - Broad as they are long
3. **FLAT BONES**
  - Relatively thin, flattened shape
4. **IRREGULAR BONES**
  - Vertebrae & Facial Bones

## STRUCTURE OF A LONG BONE



- **DIAPHYSIS**
  - Central Shaft
- **EPIPHYSIS**
  - Two ends
- **ARTICULAR CARTILAGE**
  - covers the ends of the epiphyses where the bone articulates with other bones.
- **EPIHYSEAL PLATE**
  - Growth plate, where the bone grows in length.
  - Composed of cartilage, between each epiphysis and the diaphysis
- **EPIPHYSEAL LINE**
  - When the bone growth stops, this replaces the epiphyseal plate.
- **MEDULLARY CAVITY**
  - Large cavity in the diaphysis
- **MARROW**
  - A soft tissue that fills the spaces
  - *Yellow Marrow* – consist of mostly adipose tissues; *Red Marrow* – consist of blood-forming cell and is the only site of blood formation in adults.
- **PERIOSTEUM**
  - Covers most of the outer surface of the bones
  - Encloses the diaphysis
  - Contains blood vessels and nerves
- **ENDOSTEUM**
  - Thinner connective tissue membrane that lines the surface of the medullary cavity

# Anatomy And Physiology Chapter 5 The Skeletal System

**Hussin A.Rothana**



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### **Table of Contents Anatomy And Physiology Chapter 5 The Skeletal System**

1. Understanding the eBook Anatomy And Physiology Chapter 5 The Skeletal System
  - The Rise of Digital Reading Anatomy And Physiology Chapter 5 The Skeletal System
  - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Chapter 5 The Skeletal System
  - 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 5 The Skeletal System
  - User-Friendly Interface

4. Exploring eBook Recommendations from Anatomy And Physiology Chapter 5 The Skeletal System
  - Personalized Recommendations
  - Anatomy And Physiology Chapter 5 The Skeletal System User Reviews and Ratings
  - Anatomy And Physiology Chapter 5 The Skeletal System and Bestseller Lists
5. Accessing Anatomy And Physiology Chapter 5 The Skeletal System Free and Paid eBooks
  - Anatomy And Physiology Chapter 5 The Skeletal System Public Domain eBooks
  - Anatomy And Physiology Chapter 5 The Skeletal System eBook Subscription Services
  - Anatomy And Physiology Chapter 5 The Skeletal System Budget-Friendly Options
6. Navigating Anatomy And Physiology Chapter 5 The Skeletal System eBook Formats
  - ePub, PDF, MOBI, and More
  - Anatomy And Physiology Chapter 5 The Skeletal System Compatibility with Devices
  - Anatomy And Physiology Chapter 5 The Skeletal System Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Anatomy And Physiology Chapter 5 The Skeletal System
  - Highlighting and Note-Taking Anatomy And Physiology Chapter 5 The Skeletal System
  - Interactive Elements Anatomy And Physiology Chapter 5 The Skeletal System
8. Staying Engaged with Anatomy And Physiology Chapter 5 The Skeletal System
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Anatomy And Physiology Chapter 5 The Skeletal System
9. Balancing eBooks and Physical Books Anatomy And Physiology Chapter 5 The Skeletal System
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Anatomy And Physiology Chapter 5 The Skeletal System
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Anatomy And Physiology Chapter 5 The Skeletal System
  - Setting Reading Goals Anatomy And Physiology Chapter 5 The Skeletal System
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Anatomy And Physiology Chapter 5 The Skeletal System
  - Fact-Checking eBook Content of Anatomy And Physiology Chapter 5 The Skeletal System
  - 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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