

# ANATOMY & PHYSIOLOGY

## DIGITAL DOWNLOADS STUDY GUIDE



### HUMAN ANATOMY AND PHYSIOLOGY

Study of the structure and function of the human body



**Anatomy**  
The study of the structure of the human body

**Physiology**  
The study of the function of the human body

**Structural levels**  
The study of the human body at the level of the molecule, cell, tissue, organ, and system

- 1. **Chemical level** - study of the chemical composition of the body
- 2. **Cellular level** - study of the structure and function of the cell
- 3. **Tissue level** - study of the structure and function of the tissue
- 4. **Organ level** - study of the structure and function of the organ
- 5. **System level** - study of the structure and function of the system
- 6. **Whole body level** - study of the structure and function of the whole body

### CELL AND TISSUE

Study of the structure and function of the cell and tissue



**Characteristics of animal cells**  
1. **Cell membrane** - separates the cell from its environment  
2. **Nucleus** - contains the genetic material (DNA)  
3. **Mitochondria** - produce energy for the cell  
4. **Rough endoplasmic reticulum** - synthesize proteins  
5. **Smooth endoplasmic reticulum** - synthesize lipids and detoxify drugs



**The Epithelium** - form a protective barrier for the body  
1. **Simple epithelium** - consists of a single layer of cells  
2. **Stratified epithelium** - consists of multiple layers of cells  
3. **Connective tissue** - support and bind the cells together

### NERVOUS

Study of the structure and function of the nervous system



**Characteristics of the nervous system**  
1. **Electrical signaling** - transmit information quickly  
2. **Integration** - process information and make decisions  
3. **Communication** - coordinate the activities of the body

**Neurons** - the basic unit of the nervous system

**Neurotransmitters** - chemical messengers that transmit signals between neurons

**Neuroglia** - support cells that surround neurons and provide them with nutrients and oxygen

### MUSCLES

Study of the structure and function of the muscles



**Characteristics of muscles**  
1. **Excitability** - respond to stimuli  
2. **Contractility** - shorten themselves to produce force  
3. **Elasticity** - return to their original length after contraction  
4. **Extensibility** - stretch to accommodate lengthening

**Myofibrils** - the basic unit of muscle contraction

**Myosin** - thick filaments that generate force  
**Actin** - thin filaments that interact with myosin

### REPRODUCTION

Study of the structure and function of the reproductive system



**Reproduction** - the process of producing offspring

**Sexual reproduction** - involves the fusion of male and female gametes

**Asexual reproduction** - involves the production of offspring from a single parent

**Meiosis** - the process of cell division that produces haploid gametes

### IMMUNE SYSTEM

Study of the structure and function of the immune system



**Immunity** - the body's ability to resist infection

**Antibodies** - proteins that bind to antigens and neutralize them

**Antigen** - a substance that triggers an immune response

**Macrophages** - cells that engulf and destroy pathogens

**T cells** - cells that kill infected cells and regulate the immune response

### ENDOCRINE SYSTEM

Study of the structure and function of the endocrine system



**Endocrine system** - the system of glands that secrete hormones

**Hormones** - chemical messengers that regulate the body's functions

**Hypothalamus** - the brain region that controls the endocrine system

**Pituitary gland** - the master gland that secretes hormones that control other glands

**Thyroid gland** - secretes thyroid hormones that regulate metabolism

### RESPIRATORY SYSTEM

Study of the structure and function of the respiratory system



**Respiration** - the process of exchanging gases between the body and the environment

**Inhalation** - the process of taking air into the lungs

**Exhalation** - the process of releasing air from the lungs

**Alveoli** - small air sacs where gas exchange occurs

**Capillaries** - small blood vessels that transport oxygen and carbon dioxide

17 PAGES PDF GUIDE

# Anatomy Study Guide Answers

**Joacim Rocklöv**



**Anatomy Study Guide Answers:**

## **Anatomy Study Guide Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Anatomy Study Guide Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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