

# 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. Molecular level
- 2. Cellular level
- 3. Tissue level
- 4. Organ level
- 5. System level
- 6. Organism level

### CELLS AND TISSUES

Cells are the basic units of structure and function of the human body



**Characteristics of cells**  
1. All cells are eukaryotic  
2. All cells are surrounded by a cell membrane  
3. All cells contain genetic material (DNA)

**Types of cells**  
1. Epithelial cells  
2. Connective tissue cells  
3. Muscle cells  
4. Nervous cells



### NERVOUS SYSTEM

The nervous system is responsible for controlling and coordinating the body's activities



**Structure of the nervous system**  
1. Central nervous system (CNS)  
2. Peripheral nervous system (PNS)

**Functions of the nervous system**  
1. Sensory input  
2. Integration  
3. Motor output

### MUSCULAR SYSTEM

Muscles are responsible for movement and maintaining posture



**Characteristics of muscles**  
1. Excitability  
2. Contractility  
3. Extensibility  
4. Elasticity

**Types of muscles**  
1. Skeletal muscle  
2. Cardiac muscle  
3. Smooth muscle

### REPRODUCTION

The reproductive system is responsible for producing offspring



**Male reproductive system**  
1. Testes  
2. Epididymis  
3. Vas deferens  
4. Utricle  
5. Seminal vesicle  
6. Prostate gland  
7. Urethra  
8. Penis

**Female reproductive system**  
1. Ovaries  
2. Fallopian tubes  
3. Uterus  
4. Vagina  
5. Vulva

### IMMUNE SYSTEM

The immune system is responsible for defending the body against pathogens



**Types of immune cells**  
1. White blood cells  
2. Macrophages  
3. T cells  
4. B cells

**Functions of the immune system**  
1. Defense against pathogens  
2. Removal of damaged cells  
3. Regulation of the immune response

### ENDOCRINE SYSTEM

The endocrine system is responsible for regulating the body's metabolism and growth



**Major glands of the endocrine system**  
1. Hypothalamus  
2. Pituitary gland  
3. Thyroid gland  
4. Adrenal gland  
5. Pancreas  
6. Ovaries  
7. Testes

**Functions of the endocrine system**  
1. Regulation of metabolism  
2. Regulation of growth and development  
3. Regulation of the immune response

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# Vit Notes On Anatomy And

**Lauren Gardner**



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