

# ANATOMY & PHYSIOLOGY

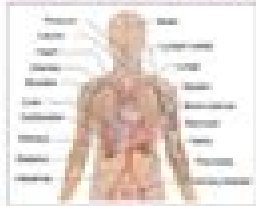
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### HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



#### Anatomy

The study of the structure of the human body and its parts.

#### Physiology

The study of the function of the human body and its parts.

#### Structural levels

Studying the human body at the cellular, tissue, organ, and system levels.

- 1. **Cellular level** - study of the structure and function of cells.
- 2. **Tissue level** - study of the structure and function of tissues.
- 3. **Organ level** - study of the structure and function of organs.
- 4. **System level** - study of the structure and function of systems.
- 5. **Whole body level** - study of the structure and function of the whole body.

### CELLS AND TISSUES

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



#### Characteristics of cells

All cells are eukaryotic and have a nucleus.

Cells are specialized to perform specific functions.

#### Types of cells

1. **Epithelial cells** - cover the body and line internal organs.

2. **Connective tissue cells** - support and connect other cells.

3. **Muscle cells** - contract to produce movement.

4. **Nerve cells** - transmit electrical signals.



The **epithelium** is the outermost layer of cells that covers the body and lines internal organs.

#### Epithelium

Epithelium is the tissue that covers the body and lines internal organs.

It is composed of cells that are closely packed together.

Epithelium is specialized to perform specific functions.

### ORGANS

Organs are structures made up of different types of tissues.

Each organ has a specific function in the body.

#### Organs

1. **Heart** - pumps blood throughout the body.

2. **Lungs** - exchange gases with the environment.

3. **Stomach** - digests food and absorbs nutrients.

4. **Brain** - controls the body's functions.

#### Organ systems

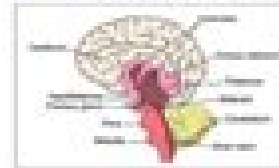
Organ systems are groups of organs that work together to perform a specific function.

1. **Cardiovascular system** - transports blood throughout the body.

2. **Respiratory system** - exchanges gases with the environment.

3. **Digestive system** - breaks down food and absorbs nutrients.

4. **Nervous system** - controls the body's functions.



#### Organ systems

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### SYSTEMS

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#### Organ systems

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4. **Nervous system** - controls the body's functions.

5. **Endocrine system** - produces hormones that regulate the body's functions.

6. **Immune system** - defends the body against disease.

### NERVOUS SYSTEM

#### Neurons

Neurons are the basic units of the nervous system.

They are specialized to receive and transmit electrical signals.

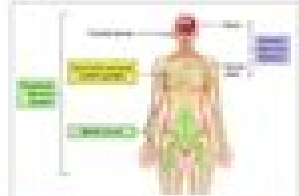
1. **Dendrites** - receive signals from other neurons.

2. **Cell body** - contains the nucleus and organelles.

3. **Axon** - carries signals away from the cell body.

4. **Myelin sheath** - insulates the axon and speeds up signal transmission.

5. **Synapse** - the point where two neurons meet to transmit signals.



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### IMMUNE SYSTEM

The immune system is the body's defense against disease.

It is composed of cells and organs that work together to protect the body.

1. **White blood cells** - fight off infection.

2. **Lymphatic system** - filters out toxins and waste.

3. **Spleen** - filters out old red blood cells.

4. **Thymus** - produces T cells.

5. **Bone marrow** - produces white blood cells.



#### Types of immune cells

1. **Macrophages** - engulf and destroy pathogens.

2. **Dendrites** - present antigens to T cells.

3. **T cells** - kill infected cells and regulate the immune response.

4. **B cells** - produce antibodies.

5. **Natural killer cells** - kill infected cells and tumors.

6. **Regulatory T cells** - suppress the immune response.

7. **Memory cells** - remember past infections.

8. **Stem cells** - produce all other immune cells.

9. **Antigen-presenting cells** - present antigens to T cells.

10. **Granulocytes** - release granules to kill pathogens.

11. **Monocytes** - become macrophages or dendrites.

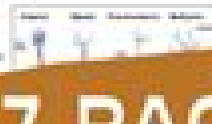
12. **Neutrophils** - kill bacteria and fungi.

13. **Eosinophils** - kill parasites and allergens.

14. **Basophils** - release histamine and other chemicals.

15. **Mast cells** - release histamine and other chemicals.

16. **Platelets** - help with blood clotting.



### ORGAN SYSTEMS OF THE BODY

The human body is made up of many different organ systems.

Each system has a specific function in the body.

1. **Cardiovascular system** - transports blood throughout the body.

2. **Respiratory system** - exchanges gases with the environment.

3. **Digestive system** - breaks down food and absorbs nutrients.

4. **Nervous system** - controls the body's functions.

5. **Endocrine system** - produces hormones that regulate the body's functions.

6. **Immune system** - defends the body against disease.

7. **Musculoskeletal system** - supports the body and enables movement.

8. **Integumentary system** - covers the body and protects it from the environment.

9. **Reproductive system** - produces offspring.

10. **Urinary system** - filters out waste and maintains fluid balance.

11. **Excretory system** - removes waste from the body.

12. **Thermoregulatory system** - maintains body temperature.

13. **Osmoregulatory system** - maintains fluid balance.

14. **Acid-base balance system** - maintains pH levels.

15. **Electrolyte balance system** - maintains ion levels.

16. **Glucose balance system** - maintains blood sugar levels.

17. **Calcium balance system** - maintains bone density.

18. **Vitamin balance system** - maintains nutrient levels.

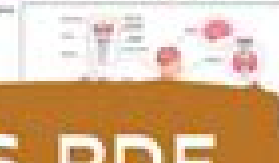
19. **Water balance system** - maintains hydration.

20. **Temperature balance system** - maintains body temperature.

21. **Pressure balance system** - maintains blood pressure.

22. **Respiratory balance system** - maintains oxygen levels.

23. **Circulatory balance system** - maintains blood flow.



### ENDOCRINE SYSTEM

The endocrine system is the body's chemical messengers.

It is composed of glands that secrete hormones.

1. **Hypothalamus** - controls the body's functions.

2. **Pituitary gland** - secretes growth hormone and other hormones.

3. **Thyroid gland** - produces thyroid hormone.

4. **Parathyroid glands** - produce parathyroid hormone.

5. **Adrenal glands** - produce adrenaline and cortisol.

6. **Pancreas** - produces insulin and glucagon.

7. **Ovaries** - produce estrogen and progesterone.

8. **Testes** - produce testosterone.

9. **Thymus** - produces thymosin.

10. **Spleen** - filters out old red blood cells.

11. **Liver** - produces bile and stores glycogen.

12. **Kidneys** - filter out waste and maintain fluid balance.

13. **Heart** - pumps blood throughout the body.

14. **Lungs** - exchange gases with the environment.

15. **Stomach** - digests food and absorbs nutrients.

16. **Intestines** - absorb nutrients and water.

17. **Bladder** - stores urine.

18. **Uterus** - carries and nurtures the developing fetus.

19. **Vagina** - canal for childbirth.

20. **Penis** - organ for sexual intercourse.

21. **Prostate** - gland that produces semen.

22. **Seminal vesicles** - produce seminal fluid.

23. **Urethra** - tube that carries urine and semen.



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# Anatomy And Physiology Study Guide Answers 19

**Edith Applegate**



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