

# ANATOMY & PHYSIOLOGY

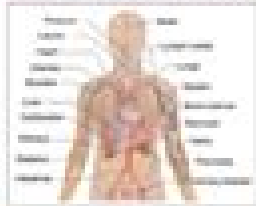
## DIGITAL DOWNLOADS STUDY GUIDE

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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 structural level involves understanding the following levels:

- 1. **Chemical level** - study of the chemical composition of the body.
- 2. **Cellular level** - study of the structure and function of cells.
- 3. **Tissue level** - study of the structure and function of tissues.
- 4. **Organ level** - study of the structure and function of organs.
- 5. **System level** - study of the structure and function of body systems.
- 6. **Whole body level** - study of the structure and function of the entire human body.

### CELLS AND TISSUES

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



#### Composition of cellular fluids

Cells are composed of various fluids, including:

- 1. **Intracellular fluid** - fluid inside the cell.
- 2. **Extracellular fluid** - fluid outside the cell.
- 3. **Interstitial fluid** - fluid between cells.
- 4. **Transcellular fluid** - fluid in body cavities.



The **axoplasm** is the fluid inside the axon. It is composed of various fluids, including:

- 1. **Extracellular fluid** - fluid outside the cell.
- 2. **Intracellular fluid** - fluid inside the cell.
- 3. **Interstitial fluid** - fluid between cells.
- 4. **Transcellular fluid** - fluid in body cavities.

### ORGANS

Organs are structures composed of different tissues that perform a specific function.

Examples of organs include the heart, lungs, stomach, and liver.

Organs are composed of different tissues, including:

- 1. **Epithelial tissue** - covers the body.
- 2. **Connective tissue** - supports the body.
- 3. **Muscle tissue** - contracts to move the body.
- 4. **Nervous tissue** - transmits information.

#### Neurophysiology

Neurophysiology is the study of the function of the nervous system.

Neurophysiology involves studying the following:

- 1. **Neurons** - the basic units of the nervous system.
- 2. **Synapses** - the points of contact between neurons.
- 3. **Electrical activity** - the flow of ions across cell membranes.
- 4. **Neurotransmitters** - chemicals that transmit information.



#### Neurophysiology

Neurophysiology is the study of the function of the nervous system.

### ORGANISMS

Organisms are living entities that can survive and reproduce.

Examples of organisms include humans, plants, and animals.

Organisms are composed of different tissues, including:

- 1. **Epithelial tissue** - covers the body.
- 2. **Connective tissue** - supports the body.
- 3. **Muscle tissue** - contracts to move the body.
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#### Organ systems

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

Examples of organ systems include the digestive system, respiratory system, and circulatory system.

Organ systems are composed of different tissues, including:

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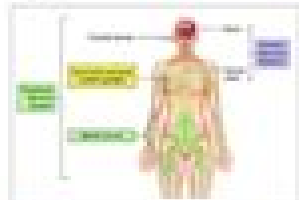
### NERVOUS SYSTEM

#### Neurons

Neurons are the basic units of the nervous system.

Neurons are composed of different parts, including:

- 1. **Dendrites** - receive information from other neurons.
- 2. **Cell body** - contains the nucleus and organelles.
- 3. **Axon** - carries information away from the cell body.
- 4. **Myelin sheath** - insulates the axon.
- 5. **Axon terminal** - releases neurotransmitters.



#### Neurotransmitters

Neurotransmitters are chemicals that transmit information between neurons.

Examples of neurotransmitters include dopamine, serotonin, and norepinephrine.

Neurotransmitters are released from the axon terminal of a neuron.

#### Neurophysiology

Neurophysiology is the study of the function of the nervous system.

### CELLS OF NEURONS

Neurons are composed of different cells, including:

1. **Neurons** - the basic units of the nervous system.

2. **Glia** - support cells that provide nutrients and insulation.

3. **Endothelial cells** - line the blood vessels.

4. **Epithelial cells** - cover the body.

5. **Muscle cells** - contract to move the body.

6. **Nervous cells** - transmit information.

7. **Connective cells** - support the body.

8. **Epithelial cells** - cover the body.

9. **Muscle cells** - contract to move the body.

10. **Nervous cells** - transmit information.

11. **Connective cells** - support the body.

12. **Epithelial cells** - cover the body.

13. **Muscle cells** - contract to move the body.

14. **Nervous cells** - transmit information.

15. **Connective cells** - support the body.

16. **Epithelial cells** - cover the body.

17. **Muscle cells** - contract to move the body.

18. **Nervous cells** - transmit information.

19. **Connective cells** - support the body.

20. **Epithelial cells** - cover the body.



### ORGAN SYSTEMS OF THE BODY

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**S Marginson**



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