

# ANATOMY & PHYSIOLOGY

## DIGITAL DOWNLOADS STUDY GUIDE



### HUMAN ANATOMY AND PHYSIOLOGY

Body structure and function of the human body



**Objectives**

- 1. Identify the major organs of the human body.
- 2. Describe the functions of the major organs of the human body.
- 3. Explain the relationship between structure and function of the human body.

**Structure**

- 1. Head
- 2. Neck
- 3. Thorax
- 4. Abdomen
- 5. Pelvis

### CELLS AND TISSUES

The basic unit of life is the cell. Cells are the building blocks of all living organisms.



**Objectives**

- 1. Describe the structure and function of a cell.
- 2. Explain the relationship between structure and function of a cell.
- 3. Identify the major organelles of a cell.

**Structure**

- 1. Cell wall
- 2. Cell membrane
- 3. Cytoplasm
- 4. Nucleus
- 5. Mitochondria
- 6. Golgi apparatus
- 7. Endoplasmic reticulum
- 8. Vacuole
- 9. Chloroplast

### THE HEART

The heart is a muscular organ that pumps blood throughout the body.



**Objectives**

- 1. Describe the structure and function of the heart.
- 2. Explain the relationship between structure and function of the heart.
- 3. Identify the major vessels of the heart.

**Structure**

- 1. Right atrium
- 2. Right ventricle
- 3. Left atrium
- 4. Left ventricle
- 5. Aorta
- 6. Pulmonary artery
- 7. Pulmonary vein
- 8. Coronary artery
- 9. Coronary vein

### THE LUNG

The lungs are a pair of organs that filter and pump air into the bloodstream.



**Objectives**

- 1. Describe the structure and function of the lungs.
- 2. Explain the relationship between structure and function of the lungs.
- 3. Identify the major vessels of the lungs.

**Structure**

- 1. Trachea
- 2. Bronchi
- 3. Bronchioles
- 4. Alveoli
- 5. Capillaries

### NERVOUS SYSTEM

The nervous system is a complex network of cells that transmit information throughout the body.



**Objectives**

- 1. Describe the structure and function of the nervous system.
- 2. Explain the relationship between structure and function of the nervous system.
- 3. Identify the major components of the nervous system.

**Structure**

- 1. Brain
- 2. Spinal cord
- 3. Nerves

### THE MUSCLES

Muscles are specialized cells that contract to produce movement.



**Objectives**

- 1. Describe the structure and function of a muscle.
- 2. Explain the relationship between structure and function of a muscle.
- 3. Identify the major components of a muscle.

**Structure**

- 1. Sarcomere
- 2. Myofibril
- 3. Actin
- 4. Myosin

### THE DIGESTIVE SYSTEM

The digestive system is a series of organs that break down food into nutrients.



**Objectives**

- 1. Describe the structure and function of the digestive system.
- 2. Explain the relationship between structure and function of the digestive system.
- 3. Identify the major components of the digestive system.

**Structure**

- 1. Mouth
- 2. Esophagus
- 3. Stomach
- 4. Small intestine
- 5. Large intestine

### THE SKIN

The skin is the largest organ of the body and acts as a barrier against the environment.



**Objectives**

- 1. Describe the structure and function of the skin.
- 2. Explain the relationship between structure and function of the skin.
- 3. Identify the major components of the skin.

**Structure**

- 1. Epidermis
- 2. Dermis
- 3. Hypodermis

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# Animal Physiology Study Guide

**Ian Pickup**



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