

ANATOMY & PHYSIOLOGY

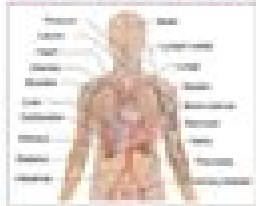
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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its internal organs

Physiology

The study of the function of the human body and its internal organs

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. **Organism level** - study of the structure and function of the whole organism

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 for their function

Cells are surrounded by a cell membrane

Cells are connected to each other

Cells are constantly changing



The **epithelium** is the outermost layer of cells that covers the body

Epithelial cells are specialized for their function

Epithelial cells are connected to each other

Epithelial cells are constantly changing

Epithelial cells are surrounded by a cell membrane

ORGANS

Organs are made up of different types of tissues

Organs are specialized for their function

Organs are connected to each other

Organs are constantly changing

Organs are surrounded by a cell membrane

Organ systems

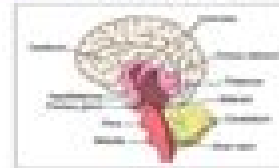
Organ systems are made up of different organs

Organ systems are specialized for their function

Organ systems are connected to each other

Organ systems are constantly changing

Organ systems are surrounded by a cell membrane



Organ systems

Organ systems are made up of different organs

NERVOUS SYSTEM

Neurons

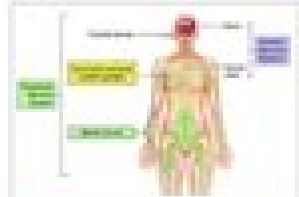
Neurons are the basic units of the nervous system

Neurons are specialized for their function

Neurons are connected to each other

Neurons are constantly changing

Neurons are surrounded by a cell membrane



Neurons

Neurons are the basic units of the nervous system

Neurons are specialized for their function

Neurons are connected to each other

Neurons are constantly changing

Neurons are surrounded by a cell membrane

IMMUNE SYSTEM

The immune system is the body's defense system

The immune system is specialized for its function

The immune system is connected to each other

The immune system is constantly changing

The immune system is surrounded by a cell membrane



Immune system

The immune system is the body's defense system

The immune system is specialized for its function

The immune system is connected to each other

The immune system is constantly changing

The immune system is surrounded by a cell membrane

ORGAN SYSTEMS OF THE BODY

The body is made up of different organ systems

Organ systems are specialized for their function

Organ systems are connected to each other

Organ systems are constantly changing

Organ systems are surrounded by a cell membrane

Organ systems are specialized for their function

Organ systems are connected to each other

Organ systems are constantly changing

Organ systems are surrounded by a cell membrane



Organ systems

The body is made up of different organ systems

Organ systems are specialized for their function

Organ systems are connected to each other

Organ systems are constantly changing

Organ systems are surrounded by a cell membrane

ENDOCRINE SYSTEM

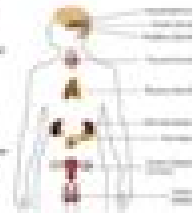
The endocrine system is the body's hormone system

The endocrine system is specialized for its function

The endocrine system is connected to each other

The endocrine system is constantly changing

The endocrine system is surrounded by a cell membrane



Endocrine system

The endocrine system is the body's hormone system

The endocrine system is specialized for its function

The endocrine system is connected to each other

The endocrine system is constantly changing

The endocrine system is surrounded by a cell membrane

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Anatomy Ad Physiology Placement Test Study Guide

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