

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

Introduction to Anatomy and Physiology

Definition: The study of the structure and function of the human body.

Branches:

- Anatomy:** The study of the structure of the body.
- Physiology:** The study of the function of the body.

Levels of Organization:

- Chemical
- Cellular
- Tissue
- Organ
- Organ System
- Organism

Cellular Level

Cell: The basic unit of life.

Organelles: Structures within a cell that perform specific functions.

- Nucleus:** Contains genetic material (DNA).
- Mitochondria:** Site of cellular respiration.
- Rough Endoplasmic Reticulum:** Site of protein synthesis.
- Smooth Endoplasmic Reticulum:** Site of lipid synthesis.
- Golgi Apparatus:** Site of protein modification and transport.
- Lysosomes:** Site of cellular waste disposal.

Tissue Level

Tissue: A group of cells that work together to perform a specific function.

Types of Tissues:

- Epithelial:** Covers the body and organs.
- Connective:** Supports and connects other tissues.
- Muscle:** Contracts to produce movement.
- Nervous:** Transmits electrical signals.

Organ Level

Organ: A structure made of different tissues that perform a specific function.

Examples: Heart, lungs, stomach, liver, kidneys.

Organ System Level

Organ System: A group of organs that work together to perform a specific function.

Examples: Digestive system, circulatory system, respiratory system.

Organism Level

Organism: The entire human body.

Homeostasis: The body's ability to maintain a stable internal environment.

Homeostasis

Definition: The body's ability to maintain a stable internal environment.

Components:

- Stimulus:** A change in the environment.
- Receptor:** Detects the stimulus.
- Control Center:** Processes the information and sends out a response.
- Effector:** Carries out the response.

Homeostasis

Examples:

- Temperature:** The body maintains a constant temperature.
- Blood Sugar:** The body maintains a constant blood sugar level.
- pH:** The body maintains a constant pH level.

Homeostasis

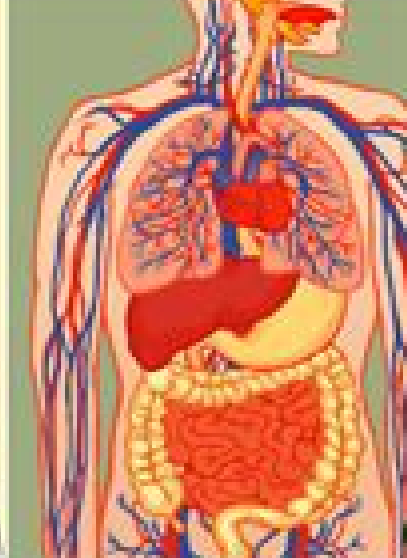
Feedback Loops:

- Positive Feedback:** Amplifies the response.
- Negative Feedback:** Reduces the response.

Homeostasis

Homeostatic Imbalance: A condition where the body's internal environment is not stable.

Causes: Disease, injury, stress, aging.



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