

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

Introduction to Anatomy and Physiology

Definition	Study of the structure and function of the human body
Branches	Anatomy: Study of structure Physiology: Study of function
Levels of organization	Chemical, Cellular, Tissue, Organ, Organ system, Organism
Homeostasis	Process by which the body maintains a stable internal environment
Feedback loops	Control systems that regulate physiological processes

Cellular Level

Cell	Basic unit of life
Organelles	Specialized structures within a cell
Protoplasm	Living content of a cell
Cell membrane	Boundary of the cell
Cell wall	Outer layer of plant cells

Tissue Level

Tissue	Group of cells with similar structure and function
Epithelial	Covers body surfaces
Connective	Supports and connects other tissues
Muscle	Contracts to produce movement
Nervous	Transmits electrical impulses

Organ Level

Organ	Structure composed of different tissues
Heart	Pumps blood throughout the body
Lung	Exchanges gases with the environment
Stomach	Digests food
Brain	Controls body functions

Organ System Level

Organ system	Group of organs that work together
Circulatory	Transports blood
Respiratory	Exchanges gases
Digestive	Digests food
Nervous	Controls body functions

Organism Level

Organism	Whole body
Homeostasis	Maintains internal balance
Adaptation	Changes in response to environment
Reproduction	Produces offspring
Growth	Increases in size

Homeostasis

Definition	Process of maintaining a stable internal environment
Set point	Desired value of a variable
Receptor	Senses changes in the environment
Control center	Processes information and sends out orders
Effector	Carries out the response

Feedback Loops

Positive	Amplifies the response
Negative	Reduces the response
Example	Body temperature regulation

Integumentary System

Skin	Protects the body
Epidermis	Outer layer of skin
Dermis	Middle layer of skin
Hypodermis	Inner layer of skin
Accessory organs	Nails, hair, sweat glands

Musculoskeletal System

Muscle	Contracts to produce movement
Bone	Supports the body
Joint	Connects bones
Ligament	Connects bones to bones
Tendon	Connects muscle to bone



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Homeostasis	Process of maintaining a stable internal environment
Feedback loops	Control systems that regulate physiological processes
Integumentary system	Protects the body
Musculoskeletal system	Supports and moves the body
Circulatory system	Transports blood
Respiratory system	Exchanges gases
Digestive system	Digests food
Nervous system	Controls body functions
Endocrine system	Regulates body functions
Reproductive system	Produces offspring

Respiratory System

Lung	Exchanges gases
Trachea	Windpipe
Bronchi	Branches of the trachea
Alveoli	Small air sacs

Circulatory System

Heart	Pumps blood
Artery	Carries blood away from the heart
Venue	Carries blood toward the heart
Capillary	Small blood vessels

Digestive System

Mouth	Starts digestion
Esophagus	Transports food
Stomach	Digests food
Small intestine	Absorbs nutrients
Large intestine	Eliminates waste

Nervous System

Brain	Controls body functions
Spinal cord	Transmits impulses
Nerve	Carries impulses
Receptor	Senses changes
Effector	Carries out response

Endocrine System

Pituitary	Master gland
Thyroid	Regulates metabolism
Adrenal	Produces adrenaline
Testis	Produces testosterone
Ovary	Produces estrogen

Reproductive System

Uterus	Where fetus develops
Vagina	Passage for birth
Penis	Male reproductive organ
Scrotum	Protects testis

Immune System

White blood cells	Fight infection
Antibodies	Attack pathogens
Vaccine	Prevents disease

Other Systems

Lymphatic	Drains fluid
Urinary	Eliminates waste
Excretory	Removes toxins

Anatomy Study Guide Module 1

Lei Shi



Anatomy Study Guide Module 1:

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