

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, 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 binds 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

System Level

System	Group of organs that work together
Circulatory	Transports blood
Respiratory	Exchanges gases
Digestive	Digests food
Excretory	Removes waste

Organism Level

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

Physiology

Physiology	Study of function
Cellular	Function of cells
Organ	Function of organs
System	Function of systems
Organism	Function of the whole body

Anatomy

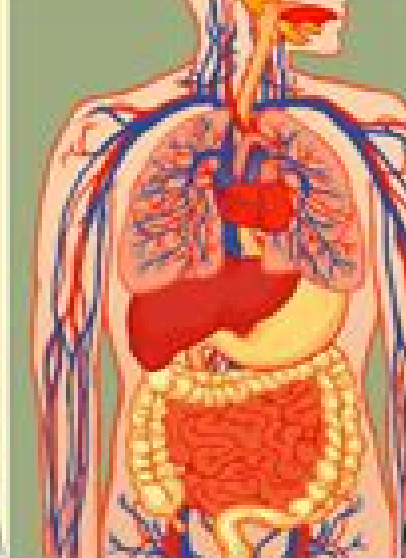
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