

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

Cell Structure

Cell: The basic unit of life.

Prokaryotic Cell: A cell that lacks a nucleus and other membrane-bound organelles.

Eukaryotic Cell: A cell that has a nucleus and other membrane-bound organelles.

Organelles: Specialized structures within a cell that perform specific functions.

Examples: Nucleus, Mitochondria, Golgi apparatus, Lysosomes, Endoplasmic reticulum.

Connective Tissues

Definition: Tissues that bind other tissues together.

Types:

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

Muscle Tissues

Definition: Tissues that contract to produce movement.

Types:

- Skeletal Muscle:** Voluntary, striated muscle.
- Cardiac Muscle:** Involuntary, striated muscle.
- Smooth Muscle:** Involuntary, non-striated muscle.

Nervous Tissues

Definition: Tissues that transmit electrical impulses.

Types:

- Neurons:** Cells that transmit electrical impulses.
- Glial Cells:** Cells that support and protect neurons.

Integumentary System

Definition: The system that covers the body and protects it from the environment.

Components: Skin, Hair, Nails.

Functions: Protection, Regulation of body temperature, Sensation.

Cardiovascular System

Definition: The system that transports blood throughout the body.

Components: Heart, Blood Vessels.

Functions: Transport of oxygen, nutrients, and waste products.

Respiratory System

Definition: The system that takes in oxygen and removes carbon dioxide.

Components: Lungs, Trachea, Bronchi.

Functions: Gas exchange.

Endocrine System

Definition: The system that regulates the body's metabolism and growth.

Components: Pituitary gland, Thyroid gland, Adrenal gland, Pancreas, Hypothalamus.

Functions: Regulation of metabolism, Growth, Reproduction.

Immune System

Definition: The system that defends the body against disease.

Components: White blood cells, Antibodies, T-cells.

Functions: Defense against pathogens, Regulation of immune response.



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- Functions:** Defense against pathogens, Regulation of immune response.

Reproductive System

Definition: The system that produces offspring.

Components: Ovaries, Uterus, Vagina, Penis, Testes.

Functions: Reproduction.

Digestive System

Definition: The system that breaks down food into nutrients.

Components: Mouth, Esophagus, Stomach, Small intestine, Large intestine.

Functions: Digestion, Absorption of nutrients.

Urinary System

Definition: The system that removes waste from the body.

Components: Kidneys, Ureters, Bladder, Urethra.

Functions: Filtration of blood, Regulation of fluid balance.

Excretory System

Definition: The system that removes waste from the body.

Components: Skin, Lungs, Kidneys.

Functions: Excretion of waste products.

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Cardiovascular System

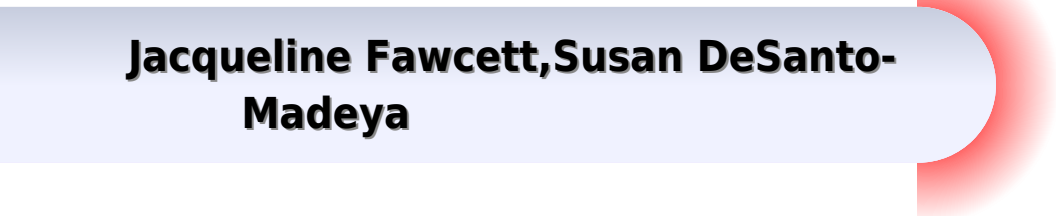
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**Jacqueline Fawcett, Susan DeSanto-
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