

# ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

## Visual learner Notes

**Introduction to Anatomy and Physiology**

|           |                    |
|-----------|--------------------|
| Structure | Function           |
| Cell      | Basic unit of life |
| Organ     | Group of tissues   |
| System    | Group of organs    |
| Organism  | Whole body         |

**Levels of Organization**

|          |                  |
|----------|------------------|
| Chemical | Atom             |
| Cellular | Cell             |
| Tissue   | Group of cells   |
| Organ    | Group of tissues |
| System   | Group of organs  |
| Organism | Whole body       |

**Homeostasis**

|                |                       |
|----------------|-----------------------|
| Stimulus       | Change in environment |
| Receptor       | Senses change         |
| Control Center | Processes info        |
| Effector       | Responds to stimulus  |
| Response       | Change in body        |

**Feedback Loops**

|          |                    |
|----------|--------------------|
| Positive | Amplifies response |
| Negative | Reduces response   |

**Cell Structure**

|             |             |
|-------------|-------------|
| Prokaryotic | No nucleus  |
| Eukaryotic  | Has nucleus |

**Cellular Processes**

|                  |                       |
|------------------|-----------------------|
| Diffusion        | Movement of molecules |
| Osmosis          | Water movement        |
| Active Transport | Requires energy       |

**Connective Tissues**

|            |                   |
|------------|-------------------|
| Epithelial | Covers surfaces   |
| Muscle     | Contracts         |
| Nerve      | Transmits signals |

**Integumentary System**

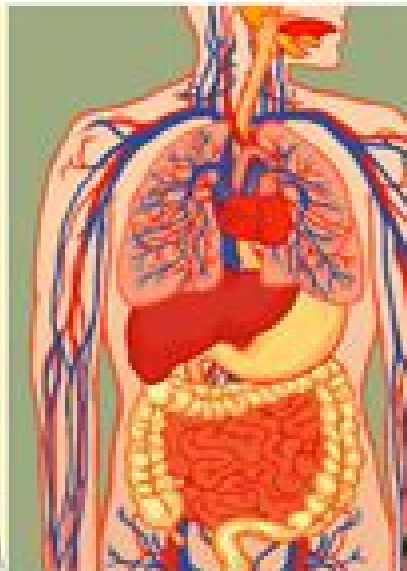
|       |                  |
|-------|------------------|
| Skin  | Protects body    |
| Hair  | Insulates        |
| Nails | Protects fingers |

**Muscular System**

|                 |             |
|-----------------|-------------|
| Skeletal Muscle | Voluntary   |
| Cardiac Muscle  | Involuntary |
| Smooth Muscle   | Involuntary |

**Skeletal System**

|                |           |
|----------------|-----------|
| Long Bone      | Humerus   |
| Short Bone     | Carpals   |
| Irregular Bone | Vertebrae |



**Respiratory System**

|           |                |
|-----------|----------------|
| Lungs     | Exchange gases |
| Trachea   | Windpipe       |
| Diaphragm | Breathes       |

**Digestive System**

|            |                   |
|------------|-------------------|
| Esophagus  | Swallows food     |
| Stomach    | Digests food      |
| Intestines | Absorbs nutrients |

**Endocrine System**

|           |                      |
|-----------|----------------------|
| Pituitary | Master gland         |
| Thyroid   | Regulates metabolism |
| Adrenal   | Produces hormones    |

**Reproductive System**

|        |                      |
|--------|----------------------|
| Ovary  | Produces eggs        |
| Uterus | Where fetus develops |
| Vagina | Birth canal          |

**Urinary System**

|         |               |
|---------|---------------|
| Kidney  | Filters blood |
| Ureter  | Drains urine  |
| Bladder | Stores urine  |

**Immune System**

|                   |                  |
|-------------------|------------------|
| White Blood Cells | Fight infection  |
| Antibodies        | Attack pathogens |

**Nervous System**

|             |                   |
|-------------|-------------------|
| Brain       | Controls body     |
| Spinal Cord | Transmits signals |
| Nerves      | Carry messages    |

**Circulatory System**

|          |                      |
|----------|----------------------|
| Heart    | Pumps blood          |
| Arteries | Carry oxygen         |
| Venues   | Carry carbon dioxide |

**Excretory System**

|                 |                |
|-----------------|----------------|
| Sweat Glands    | Cool body      |
| Salivary Glands | Produce saliva |

**Integumentary System**

|       |                  |
|-------|------------------|
| Skin  | Protects body    |
| Hair  | Insulates        |
| Nails | Protects fingers |

# Anatomy And Pysiology Packet

**Daniel J. Kenny**



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*Concepts in Cell Biology - History and Evolution* Vaidurya Pratap Sahi,František Baluška,2018-03-01 This book discusses central concepts and theories in cell biology from the ancient past to the 21st century based on the premise that understanding the works of scientists like Hooke Hofmeister Caspary Strasburger Sachs Schleiden Schwann Mendel Nemec McClintock etc in the context of the latest advances in plant cell biology will help provide valuable new insights Plants have been an object of study since the roots of the Greek Chinese and Indian cultures Since the term cell was first coined by Robert Hooke 350 years ago in Micrographia the study of plant cell biology has moved ahead at a tremendous pace The field of cell biology owes its genesis to physics which through microscopy has been a vital source for piquing scientists interest in the biology of the cell Today with the technical advances we have made in the field of optics it is even possible to observe life on a nanoscale From Hooke s observations of cells and his inadvertent discovery of the cell wall we have since moved forward to engineering plants with modified cell walls Studies on the chloroplast have also gone from Julius von Sachs experiments with chloroplast to using chloroplast engineering to deliver higher crop yields Similarly advances in fluorescent microscopy have made it far easier to observe organelles like chloroplast once studied by Sachs or actin observed by Bohumil Nemec If physics in the form of cell biology has been responsible for one half of this historical development biochemistry has surely been the other

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