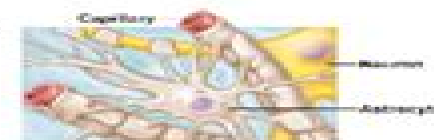
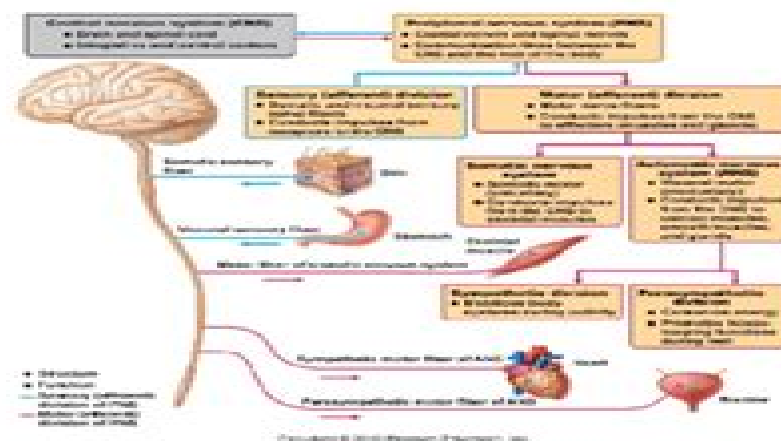
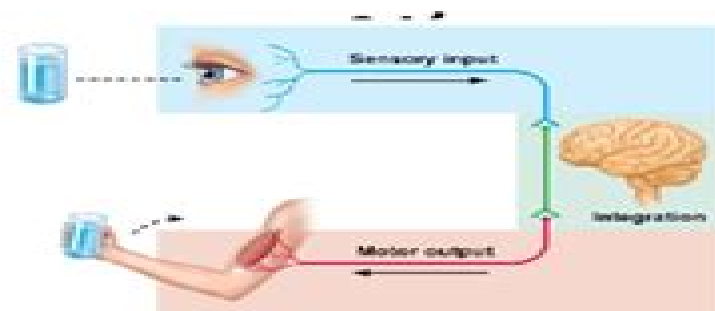


Chapter 11: Fundamentals of the Nervous System and Nervous Tissue Study Guide

Vocabulary:

- **Neuron** – Nerve cell
- **Nerve** – Bundle of axons of neurons
- **CNS** – Central Nervous System: The brain and spinal cord, site of integration, interprets input and dictates motor responses based on past experience, reflexes, and current conditions.
- **PNS** – Peripheral Nervous System: The spinal and cranial nerves, sensing input from the body and sending information to tissues.
- **Afferent division of the PNS** – Also known as Sensory. Sends to CNS through somatic and visceral afferent nerve fibers.
- **Efferent division of the PNS** – Also known as Motor. Comes from the CNS to the organs, muscles, and glands.
- **The Somatic Nervous System** (voluntary nervous system) - from the CNS to the skeletal muscles
- **The Autonomic Nervous System** (involuntary nervous system) - including the smooth muscles, cardiac muscles, and glands
- **Sympathetic nervous system** – Mobilizes body systems during activity.
- **Parasympathetic nervous system** – Conserves energy.
- **Excitable neuroglia** -
- **Glial cells** – smaller than neurons, have a branching process and central body like neurons, and also known as nerve glue. 4 types:
 - **Astrocytes** – star cell, most abundant and versatile, connects neurons to capillaries, absorbs excess K^+ , participates in information processing in brain.



(a) Astrocytes are the most abundant CNS neuroglia.

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