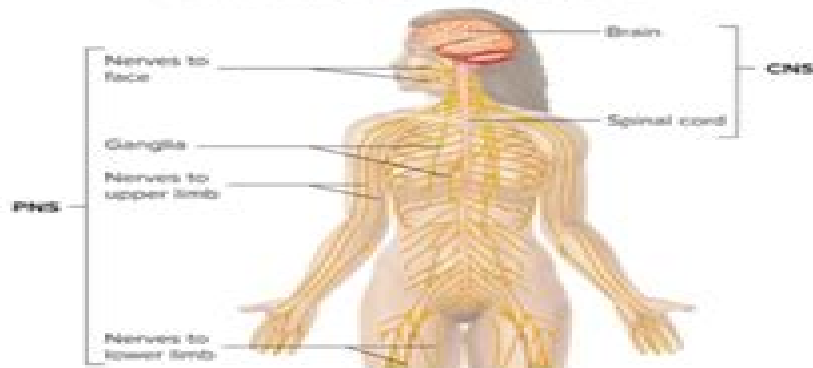


NERVOUS SYSTEM (PART 1)

(CHAPTER 8)

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NERVOUS SYSTEM FUNCTIONS:

1. Receiving sensory input
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3. Controlling muscle and glands
4. Maintaining homeostasis
5. Establishing and maintaining mental activity

Main Divisions of Nervous System:

Central Nervous System (CNS)= Brain and spinal cord.

Peripheral Nervous System (PNS)= all the nervous tissue outside the CNS.

Sensory Division= conducts action potentials from sensory receptors to the CNS.

Motor Division= conducts action potentials to effector organs, such as muscles and glands.

Somatic Nervous System= transmits action potentials from the CNS to skeletal muscles.

Autonomic Nervous System= transmits action potentials from the CNS to cardiac, smooth muscle, and glands.

Enteric Nervous System= special nervous system found only in the digestive tract.

Cells of the Nervous System:

Neurons= receive stimuli, conduct action potentials, and transmits signals to other neurons or effector organs.

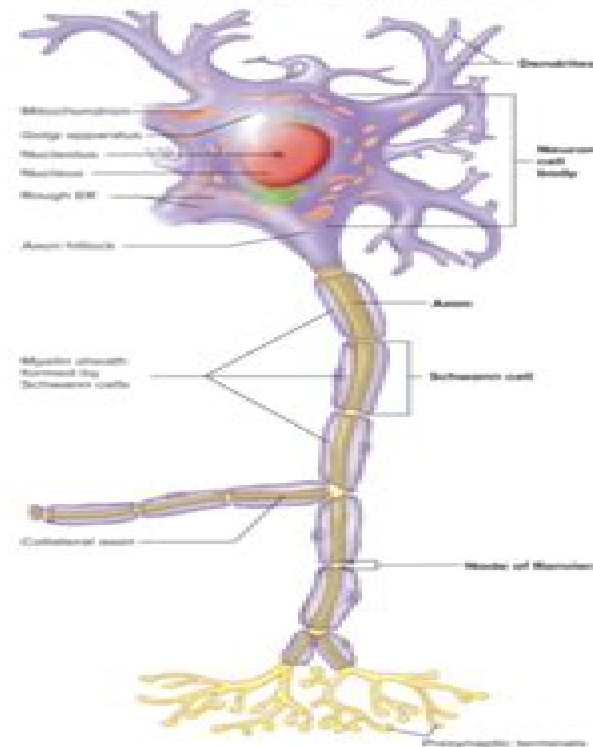
Glial Cells= supportive cells of the CNS and PNS, meaning these cells do not conduct action potentials. Instead, glial cells carry out different

functions that enhance neuron function and maintain normal conditions within nervous tissue.



TYPICAL NEURON:

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