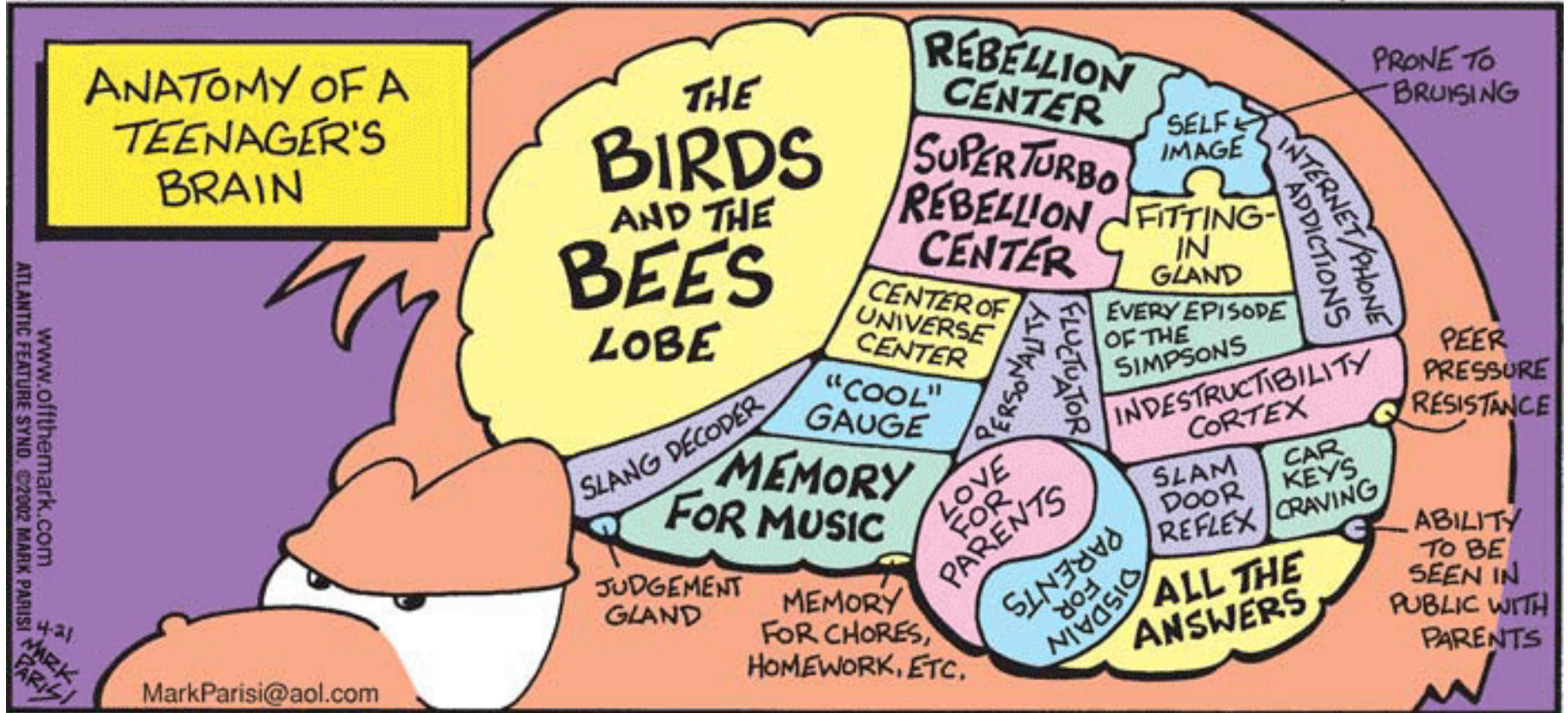


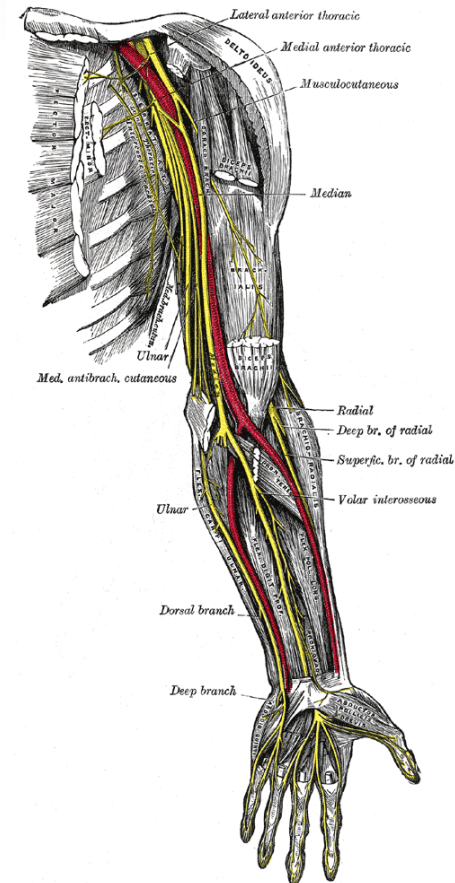
- Chapter 19.1-19.2 The Nervous System
 - Section 1: How the Nervous System works
 - Section 2: Divisions of the Nervous system

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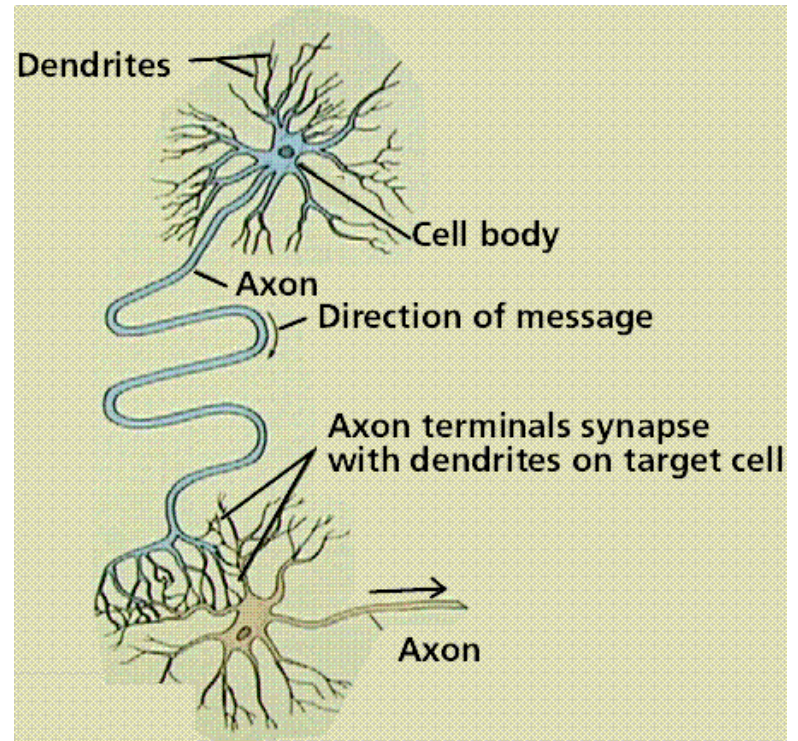
Functions of the nervous system

1. _____
2. Responds to any stimulus with a response
Stimulus = _____
3. Maintains homeostasis

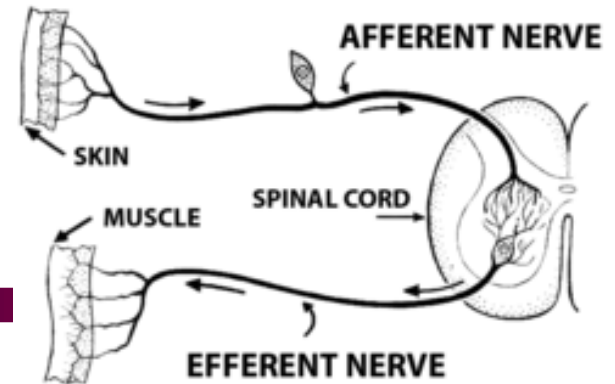


Parts of Neurons (nerve cells)

- **Cell body** - _____
- **Dendrites** - carry impulses _____
cell body
- **Axon** - carries impulses _____
from cell body
- **Synapse** = _____
- **Neurotransmitters** = _____
that carry impulses across synapses



Types of neurons



- **Receptors**
 - cells that detect stimuli & transfer to sensory neurons
- **Sensory neurons**
 - _____ & converts it into a nerve impulse
- **Interneurons**
 - _____ sensory to motor neurons (like translators)
 - Located in Spinal cord and brain
- **Motor neurons**
 - send impulses to _____
- **Effectors**
 - _____ stimulated by motor neurons

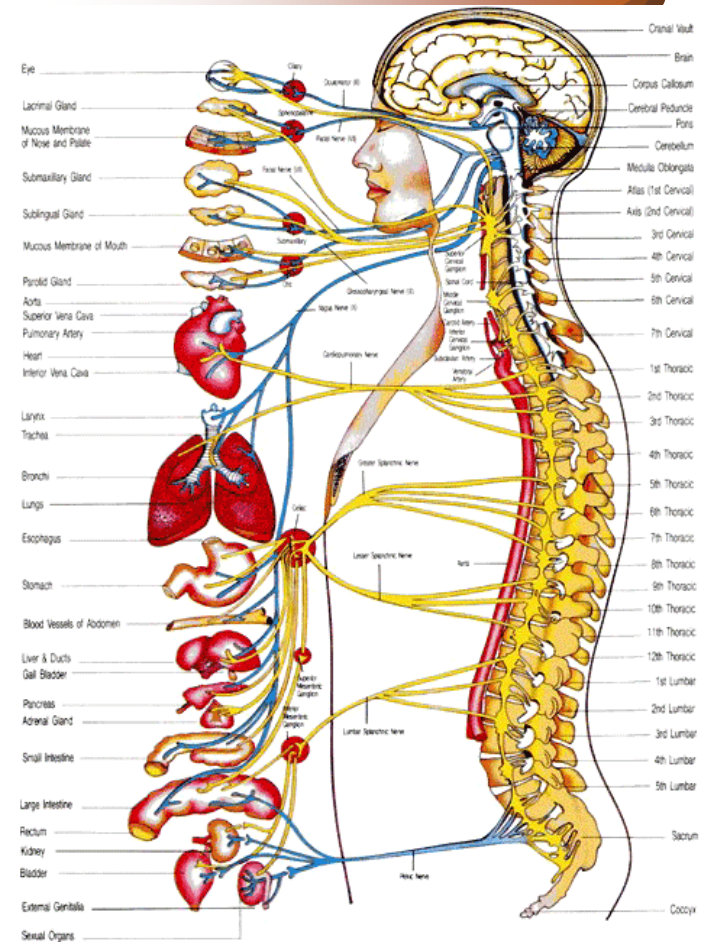
Divisions of the Nervous

- **Central NS**

1. _____
2. _____

- **Peripheral NS -**

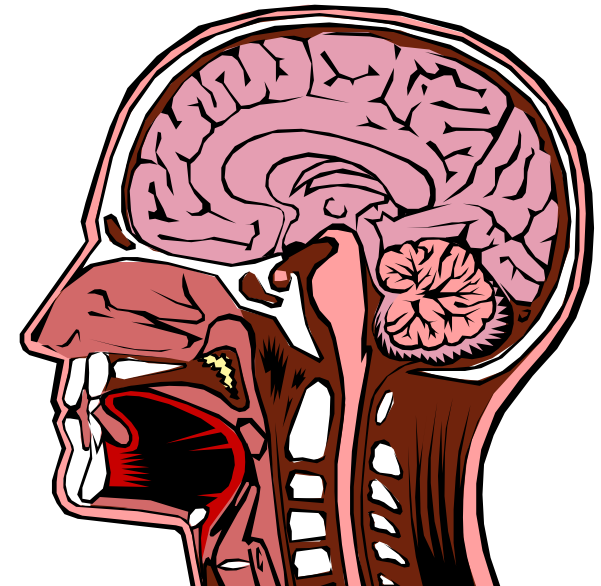
1. _____ NS
 - a. controls involuntary actions
 - b. smooth muscles & glands;
2. _____ NS
 - a. Control voluntary actions
 - b. movement



Brain

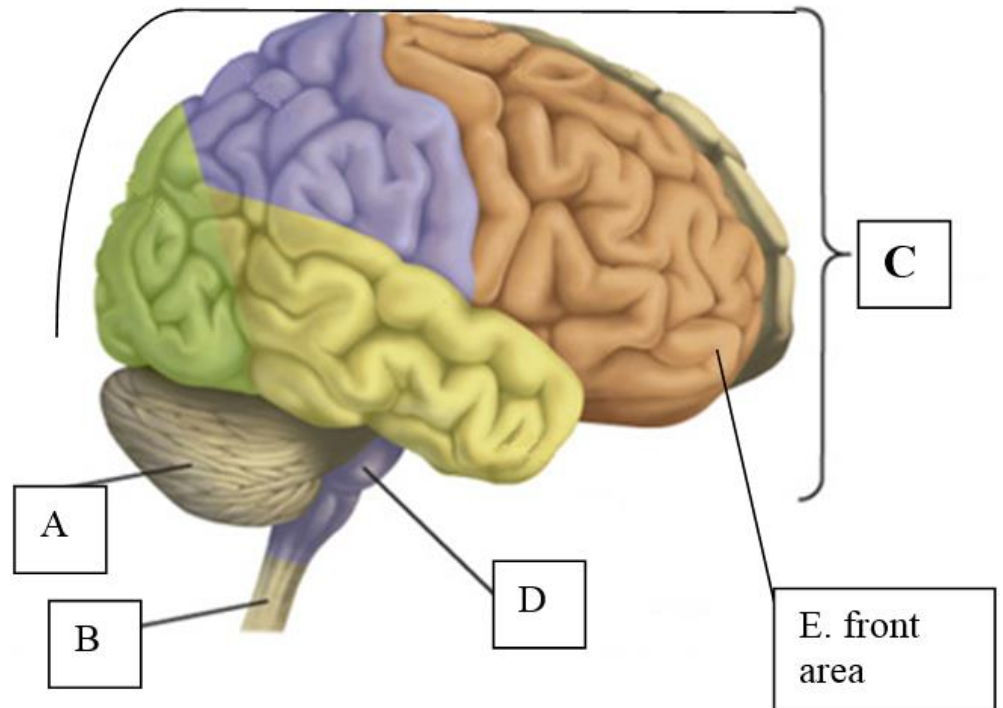
- _____
 - senses, memory, thinking, voluntary muscles
- _____
 - coordinates muscle movement, balance, muscle tone
- _____
 - heartbeat, breathing, blood pressure, involuntary muscle movements

PreFrontal Cortex-



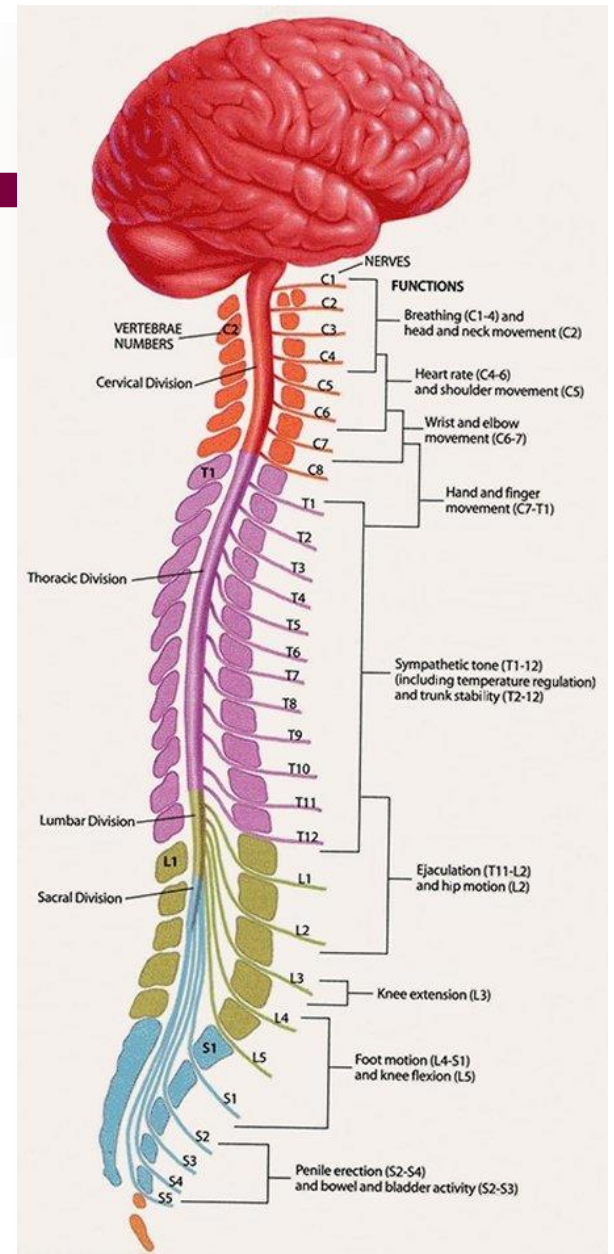
Brain – practice labels and definitions

- _____
- _____
- _____
- _____
- _____



Other Brain Structures

- Cerebrospinal Fluid
(_____)
- Skull
- Meninges (membranes)
- Spinal Cord
 - Link between _____ and _____ NS
 - Responsible for reflexes



Reflexes

- _____ response to a stimulus

- _____ because it is so fast

- reflex arc

- Receptor → Spinal cord (interneuron/s) → motor neuron of affected area



Nervous System Injuries

- Concussion

- Like a bruise

- _____

- Spinal Cord Injuries

- Spinal cord is cut or crushed

- _____

