

## Nervous System Study Guide (LVN Remediation)

## 1. Nervous System Overview

- **Main functions:** Control, coordination, communication.
- **Two major divisions:**
  - **Central Nervous System (CNS)** – Brain + Spinal cord.
  - **Peripheral Nervous System (PNS)** – All nerves outside CNS.

**Tip:** CNS = “command center,” PNS = “delivery system.”

## 2. Cells of the Nervous System

- **Neuron** – basic structural & functional unit.
  - **Dendrites** – receive impulses.
  - **Cell body** – control center.
  - **Axon** – carries impulses away.
  - **Synapse** – gap between neurons.
- **Myelin sheath** (Schwann cells in PNS, oligodendrocytes in CNS) – speeds transmission.
- **Glial cells** – support & protect neurons (astrocytes, microglia, etc.).

**Tip:** “D → C → A” = Dendrite (receives), Cell body (processes), Axon (sends away)

## 3. Neurotransmitters

- **Acetylcholine (ACh)** – muscle contraction.
- **Dopamine** – movement, reward.
- **Serotonin** – mood, sleep.
- **Epinephrine/Norepinephrine** – fight-or-flight.

**Tip:** ACh = “Always Contract here.”

## 4. Major Parts of the Brain

- **Cerebrum** – largest, higher thinking, memory, voluntary movement.
  - **Frontal lobe** – movement, speech, judgment.
  - **Parietal lobe** – touch, sensation.
  - **Temporal lobe** – hearing, memory.
  - **Occipital lobe** – vision.
- **Cerebellum** – balance, posture, coordination.
- **Brainstem** – midbrain, pons, medulla.
  - **Medulla oblongata** – vital centers (breathing, heart rate).
- **Diencephalon**
  - **Thalamus** – sensory relay station.
  - **Hypothalamus** – regulates temperature, hunger, thirst, autonomic control.

**Tip:** “F-P-T-O” = Frontal, Parietal, Temporal, Occipital

## 5. Protective Structures

- **Meninges (3 layers):**
  - **Dura mater** – outer, tough.
  - **Arachnoid mater** – middle, web-like.

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