

## Chapter 8

### 1. Outline the organization of the nervous system according to structure and function.

Nervous system is the "boss of the body" responsible for maintain homeostasis:  
It uses the nerves to receive and send information throughout the body

#### Central Nervous System (CNS)

- Brain
- Spinal Cord

#### Peripheral Nervous System (PNS)

- Nerves in the body
  - Somatic Nervous System – voluntary control of skeletal muscles
  - Autonomic Nervous System – involuntary control of glands, smooth and cardiac muscles
    - Parasympathetic – all the time (no control)
      - Digest/Rest (running body)
    - Sympathetic – Stress
      - Fight or flight
      - 4 Es
        - Emergency
        - Embarrassment
        - Exercise
        - Excitement

### 2. Describe the structure of a neuron.

Neurons – cells of nervous systems

- Cell body
  - Nucleus and organelles
- Cell Fibers
  - Dendrites = neuron fibers that conduct impulses (signals) to the cell body
  - Axon = neuron fibers that conduct impulses away from the cell body
    - Where most disease happens

### 3. Explain the construction and function of the myelin sheath.

- Myelin Sheath (Schwan cells) – wraps around axon
  - Insulates axon
  - White fatty tissue
    - White matter has myelin
    - Gray matter has no myelin
  - Neurilemma – outermost layer of myelin sheath
  - Nodes (Ranvier) – gaps between myelin sheaths
    - Improves speed of impulses
      - Saltatory conduction is the impulses that jumps between nodes

# Chapter 8 The Nervous System Packet Answers

**CL Gary**



## **Chapter 8 The Nervous System Packet Answers:**

## **Chapter 8 The Nervous System Packet Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chapter 8 The Nervous System Packet Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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