

NERVOUS SYSTEM APP

MODULE 5

NERVOUS SYSTEM

→ **CENTRAL**
- BRAIN
- SPINAL CORD

→ **PERIPHERAL**
- NERVES
- GANGLIA

FUNCTIONAL ORGANIZATION:

SENSORY INPUT

SOMATIC SENSORY
VISCERAL SENSORY

MOTOR OUTPUT

SOMATIC MOTOR
AUTONOMIC MOTOR

SYMPATHIC NS

V.S. PARASYMPATHETIC

QUESTIONS:

- WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THIS DIVISION CALLED?
- WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THIS DIVISION CALLED?
- WHAT IS THE DIFFERENCE BETWEEN THE SYMPATHETIC & PARASYMPATHETIC NS?
- WHAT ARE THE PARTS OF A NEURON?
- WHAT IS AN ACTION POTENTIAL?
- WHERE ARE THEY GENERATED?
- WHERE DOES ACTION POTENTIAL GO FROM THERE?
- WHY IS MYELIN IMPORTANT TO THE FUNCTIONING OF NEURONS?
(BRIEFLY, HOW DOES IT INVOLVE MYELIN?)
- DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

CNS

PNS

BRAIN - "most complicated, mysterious, sensitive organs on Earth"

SPINAL CORD

NERVES
GANGLIA

→ (to the side) → anything with "nerves"
→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

→ PROPRICEPTION
→ SENSATION

"LEAVING" CNS

→ going to EFFECTORS

"BODY"

SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

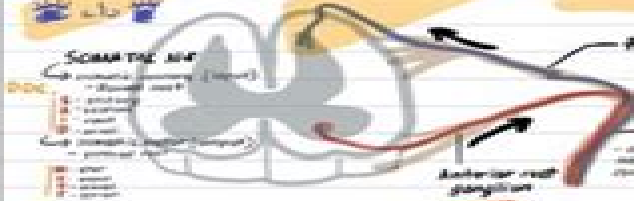
→ INAWARE OF (don't have to think about)
- HEART PUMP, BREATHING
→ CARDIAC MUSCLE, smooth muscle, glands.

SOMATIC NERVE

- PROPRICEPTION
- FINE PERCEPT

VISCERAL NERVE

- INTERNAL ORGANS
- BLOOD VESSEL



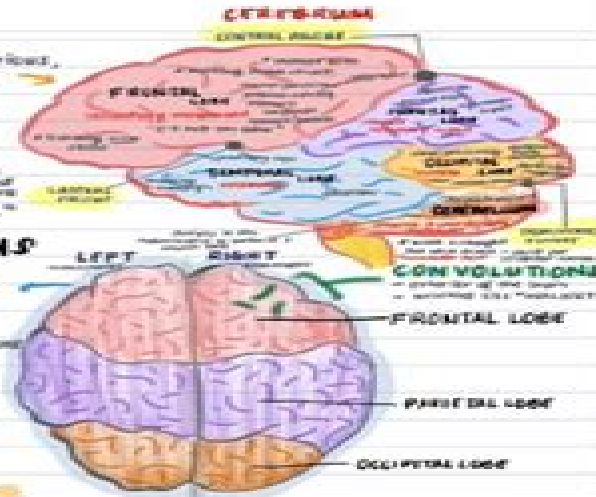
① ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (UP & DOWN BECAUSE OF MYELIN SHEATH), TOWARDS THE SYMPATHETIC END BULB.

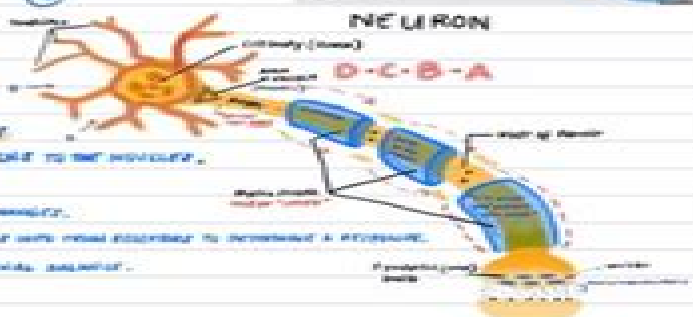
② MYELIN IS AN INSULATING LAYER THAT SERVES AS PROTECTION FOR THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL FIBERS. SLOW AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NERVES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

- RECEPTOR: detects changes in stimulus/ environmental changes.
- CONTROL CENTER (AUTONOMIC CENTER): receives information from the receptor to determine a response.
- EFFECTOR: produces a response to maintain body's internal balance.
- (i.e. CONVICTION (working as body's temperature regulator))



- ① SOMATIC NERVOUS SYSTEM
- ② AUTONOMIC NERVOUS SYSTEM



SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, INTEGRATING DIFFERENT PARTS OF THE BODY INTO ONE COHERENT AND FUNCTIONAL WHOLE. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Anatomy Physiology Chapter 7 Notes Nervous System

Arzu Çelik, Mathias F. Wernet



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Table of Contents Anatomy Physiology Chapter 7 Notes Nervous System

1. Understanding the eBook Anatomy Physiology Chapter 7 Notes Nervous System
 - The Rise of Digital Reading Anatomy Physiology Chapter 7 Notes Nervous System
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy Physiology Chapter 7 Notes Nervous System
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy Physiology Chapter 7 Notes Nervous System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy Physiology Chapter 7 Notes Nervous System

- Personalized Recommendations
 - Anatomy Physiology Chapter 7 Notes Nervous System User Reviews and Ratings
 - Anatomy Physiology Chapter 7 Notes Nervous System and Bestseller Lists
5. Accessing Anatomy Physiology Chapter 7 Notes Nervous System Free and Paid eBooks
 - Anatomy Physiology Chapter 7 Notes Nervous System Public Domain eBooks
 - Anatomy Physiology Chapter 7 Notes Nervous System eBook Subscription Services
 - Anatomy Physiology Chapter 7 Notes Nervous System Budget-Friendly Options
 6. Navigating Anatomy Physiology Chapter 7 Notes Nervous System eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy Physiology Chapter 7 Notes Nervous System Compatibility with Devices
 - Anatomy Physiology Chapter 7 Notes Nervous System Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy Physiology Chapter 7 Notes Nervous System
 - Highlighting and Note-Taking Anatomy Physiology Chapter 7 Notes Nervous System
 - Interactive Elements Anatomy Physiology Chapter 7 Notes Nervous System
 8. Staying Engaged with Anatomy Physiology Chapter 7 Notes Nervous System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy Physiology Chapter 7 Notes Nervous System
 9. Balancing eBooks and Physical Books Anatomy Physiology Chapter 7 Notes Nervous System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy Physiology Chapter 7 Notes Nervous System
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Anatomy Physiology Chapter 7 Notes Nervous System
 - Setting Reading Goals Anatomy Physiology Chapter 7 Notes Nervous System
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Anatomy Physiology Chapter 7 Notes Nervous System

- Fact-Checking eBook Content of Anatomy Physiology Chapter 7 Notes Nervous System
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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