

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:

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

CNS

PNNS

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"

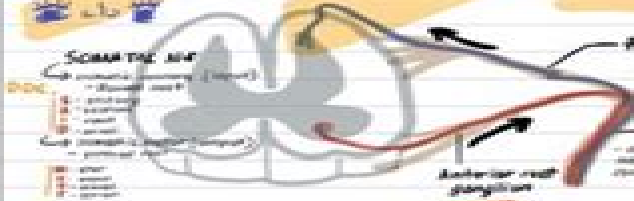
SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

→ INAWARE OF (don't have to think about)
- HEART PUMP, BREATHING
→ CARDIAC MUSCLE, SMOOTH MUSCLE, GLANDS

SOMATIC sensory
- PROPRICEPTION
- FINE TOUCH

VISCERAL sensory
- INTERNAL ORGANS
AND BLOOD VESSELS



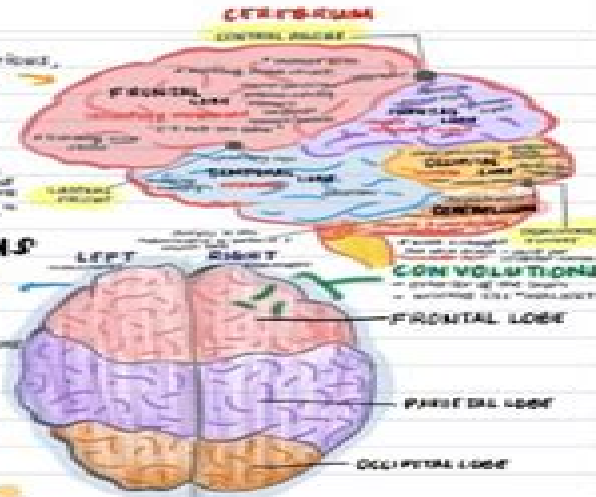
① ACTION POTENTIALS ARE NERVE SIGNALS

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

② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. DUE TO THE EFFICIENT TRANSMISSION OF ACTION POTENTIALS IN MYELIN, FOR THE FUNCTIONALITY OF NERVOUS. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE ONE TO THE OTHER.

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

- RECEPTOR: DETECTS CHANGE IN (INTERNAL/EXTERNAL) ENVIRONMENT.
- CONTROL CENTER (AUTONOMIC CENTER): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
- (E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



LEFT RIGHT

CEREBRAL CORTEX

→ HIGH ORDER THINKING
→ COGNITIVE FUNCTIONS

LONGITUDINAL FURROW

CONVOLUTIONS

→ FOLDING OF THE SURFACE
→ INCREASES SURFACE AREA

FRONTAL LOBE

PARIETAL LOBE

OCCIPITAL LOBE

TEMPORAL LOBE

CEREBELLUM

BRIDGES

SPINAL CORD

NEURAL FEEDBACK LOOP

RECEPTOR

CONTROL CENTER

EFFECTOR

NEURON

D-C-B-A

Cell body (soma)

Axon

Myelin sheath

Node of Ranvier

Synaptic cleft

Effector organ

Receptor organ

Neural feedback loop

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 Of The Brain Lecture Notes

L Cohen



Anatomy Of The Brain Lecture Notes:

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Table of Contents Anatomy Of The Brain Lecture Notes

1. Understanding the eBook Anatomy Of The Brain Lecture Notes
 - The Rise of Digital Reading Anatomy Of The Brain Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy Of The Brain Lecture Notes
 - 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 Of The Brain Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy Of The Brain Lecture Notes
 - Personalized Recommendations
 - Anatomy Of The Brain Lecture Notes User Reviews and Ratings
 - Anatomy Of The Brain Lecture Notes and Bestseller Lists
5. Accessing Anatomy Of The Brain Lecture Notes Free and Paid eBooks
 - Anatomy Of The Brain Lecture Notes Public Domain eBooks
 - Anatomy Of The Brain Lecture Notes eBook Subscription Services
 - Anatomy Of The Brain Lecture Notes Budget-Friendly Options
6. Navigating Anatomy Of The Brain Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy Of The Brain Lecture Notes Compatibility with Devices
 - Anatomy Of The Brain Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy Of The Brain Lecture Notes
 - Highlighting and Note-Taking Anatomy Of The Brain Lecture Notes
 - Interactive Elements Anatomy Of The Brain Lecture Notes

8. Staying Engaged with Anatomy Of The Brain Lecture Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy Of The Brain Lecture Notes
9. Balancing eBooks and Physical Books Anatomy Of The Brain Lecture Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy Of The Brain Lecture Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anatomy Of The Brain Lecture Notes
 - Setting Reading Goals Anatomy Of The Brain Lecture Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anatomy Of The Brain Lecture Notes
 - Fact-Checking eBook Content of Anatomy Of The Brain Lecture Notes
 - 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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