

NERVOUS SYSTEM APP

MODULE 5

NERVOUS SYSTEM

STRUCTURAL ORGANIZATION:

- **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. PARASYMPATHIC

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 MENTION THE INVOLVED MOLECULE)
- DESCRIBE THE ROLES OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

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

PNS - SPINAL CORD

NERVES - meet up & all messages travel along by the CNS. If a nerve is cut, the message can't get to the organ.

GANGLIA - (to the side) → anything with nerves

→ ALL nervous tissue outside of CNS



Stuff we are "AWARE" of

- ↳ PROPRICEPTION
- ↳ SENSATION
- ↳ going "IN" THE CNS

"LEAVING" CNS

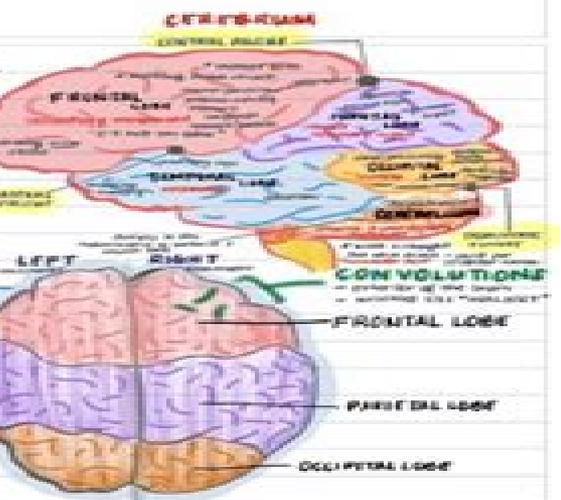
- ↳ going to EFFECTORS

"BODY" OF

- SOMATIC MOTOR - SKELETAL MUSCLE
 - ↳ VOLUNTARILY MOVABLE
- AUTONOMIC MOTOR - LONGITUDINAL MUSCLE
 - ↳ INVOLUNTARILY MOVABLE
 - ↳ UNDER CONTROL OF BRAIN
 - ↳ HEART, BLOOD VESSELS, BREATHING, Glands



- ACTION POTENTIALS ARE NERVE SIGNALS
 - GENERATED IN THE AXON HILLOCK, FROM THERE,
 - THEY TRAVEL DOWN THE AXON (AND UP BRANCHES IF THERE ARE), TOWARDS THE SYNAPTIC END BULB.
- MYELIN IS AN INSULATING LAYER THAT SURROUNDS PROTECTIONS FOR THE AXON, IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONS FIBERS. SWIFT AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF MUSCLES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE IMPULSES FROM THE CNS TO THE MUSCLES.
- NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!
 - > RECEPTOR: SENSES CHANGE IN ENVIRONMENT/ENVIRONMENTAL CHANGE.
 - > CONTROL CENTER (AUTONOMIC NS): ACTIVELY INVOLVED WITH FEELING SENSORY TO DETERMINE A RESPONSE.
 - > EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S INTERNAL BALANCE.
 - (i.e. COUGHING (reacting to smoke) temperature regulator)



CEREBRAL CORTEX

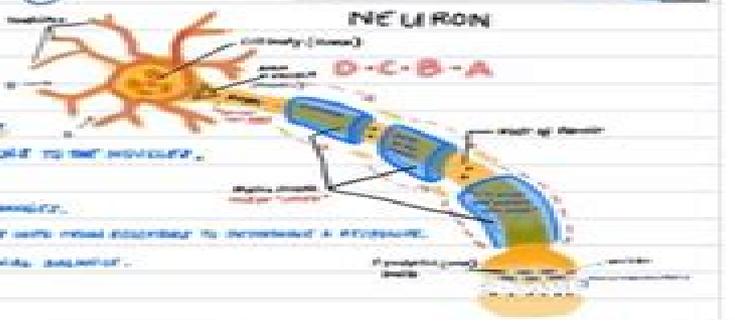
- White outer covering
- cognitive functions

- 1. SENSORY INPUT
- 2. SOMATIC NERVOUS SYSTEM
- 3. AUTONOMIC NERVOUS SYSTEM



NEURON

D-C-B-A



SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT EXPRESS COORDINATION AND COORDINATION WITHIN THE BODY. ESPECIALLY, DIVIDING DIFFERENT PARTS OF THE BODY INTO SELF-COORDINATING AND FUNCTIONAL UNITS. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

Cns Study Guide Answers

Michal Rosen-Zvi



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