

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. 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 FUNCTION OF NEURONS? (BRIEFLY MENTION THE INVOLVED MOLECULE)
 - DESCRIBE THE ROLES OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

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

PNS - SPINAL CORD

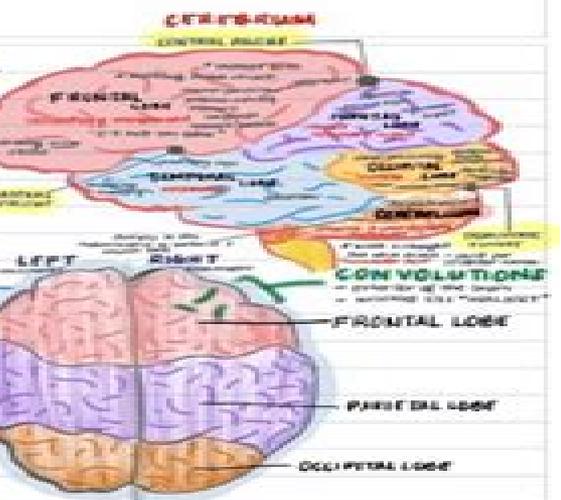
NERVES - meet up at all intervals through the body. In central nervous system, they are called nerves. In peripheral nervous system, they are called ganglia.

GANGLIA - (to the side) → anything with nerves

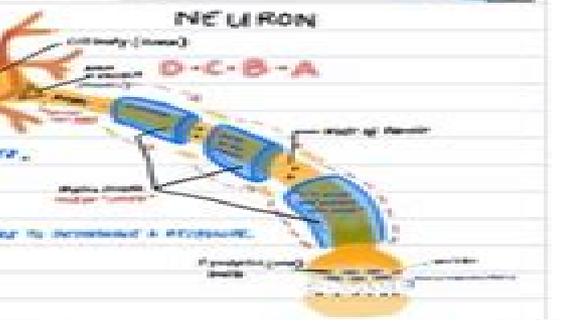
→ ALL nervous tissue outside of CNS



- ACTION POTENTIALS ARE NERVE SIGNALS**
 - GENERATED IN THE AXON HILLOCK, FROM THERE,
 - THEY TRAVEL DOWN THE AXON (AND UP BACK IF NEEDING THEM), TOWARDS THE SYNAPTIC END BULB.
- MYELIN IS AN INSULATING LAYER THAT SERVES AS PROTECTION FOR THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONS. MYELIN, GUNGE 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:** detects change in stimulus/environmental condition.
 - **CONTROL CENTER (AUTONOMIC DIVISION):** constantly monitors with neural circuitry to determine a response.
 - **EFFECTOR:** produces a response to maintain body's internal balance. (i.e. breathing (working as body's temperature regulator))



- ANSWERS:**
- SOMATIC NERVOUS SYSTEM
 - AUTONOMIC NERVOUS SYSTEM



Jo

Anatomy Physiology Chapter 7 Notes Nervous System

Puja Mehta



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