

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

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 CONTROLLED

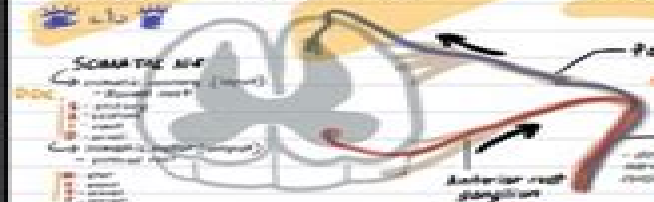
AUTONOMIC MOTOR

→ INNATE OF (LIFE) FUNCTIONS (e.g., heart, lungs)

→ CARDIAC muscle, smooth muscle, glands.

SOMATIC NERVE
- PROPRICEPTION
- FINE MOVEMENT

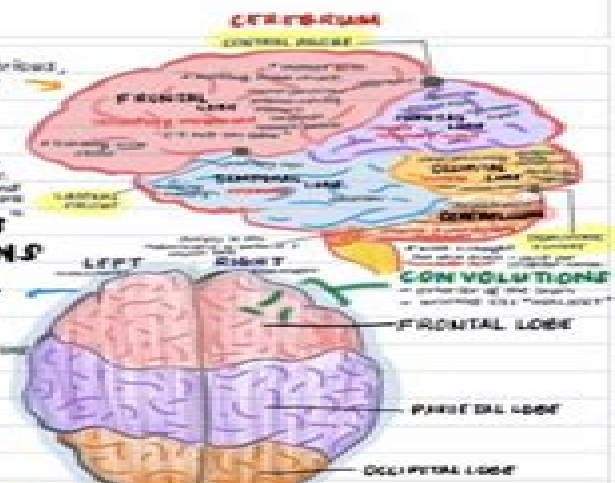
VISCERAL NERVE
- INTERNAL ORGANS AND BLOOD VESSELS



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 SULEY.

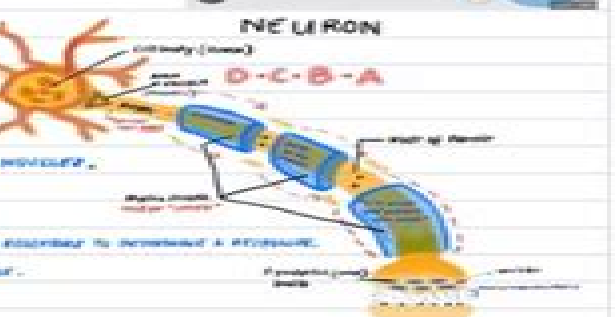
② MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL FIBERS. DENDRITES AND EFFERENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF MUSCLES. IT FACILITATES SMOOTH COMMUNICATION OF NERVE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

③ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!
- **RECEPTOR:** DETECTS CHANGES IN PHYSICAL/ CHEMICAL ENVIRONMENT.
- **CONTROL CENTER (AUTONOMIC NERVE):** RECEIVES INFORMATION FROM RECEPTORS TO DETERMINE A RESPONSE.
- **EFFECTOR:** EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
(E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)



CONVOLUTIONS
- FOLDING OF THE SURFACE - INCREASES SURFACE AREA

ANSWERS:
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

Annelies Wilder-Smith



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