

NERVOUS SYSTEM A+P

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. 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, NO ONE THAT INVOLVES MATHS)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT FACILITATE COMMUNICATION AND COORDINATION WITHIN THE BODY. ESSENTIALLY, DIVIDING DIFFERENT PARTS OF THE BODY INTO SENSORY AND MOTOR AREAS. IT PLAYS A FUNDAMENTAL ROLE IN CONTROLLING BODY FUNCTIONS, RESPONDING TO STIMULI, AND MAINTAINING HOMEOSTASIS.

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

PN.S - SPINAL CORD

NERVES
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"

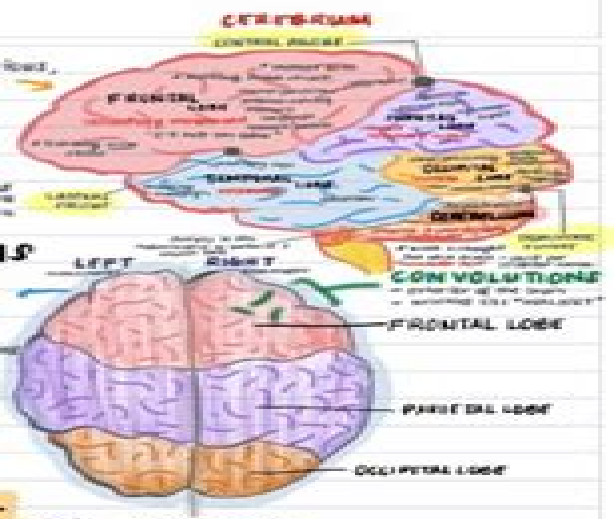
- SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

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



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 SYNAPTIC END BULB.
2. MYELIN IS AN INSULATING LAYER THAT SURROUNDS 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 NERVOUS. 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 NERVOUS): RECEIVES INFORMATION FROM RECEPTORS TO DETERMINE A RESPONSE.
 - EFFECTORS: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
 - (E.G. SHIVERING (WARMING UP BODY) TEMPERATURE REGULATOR)

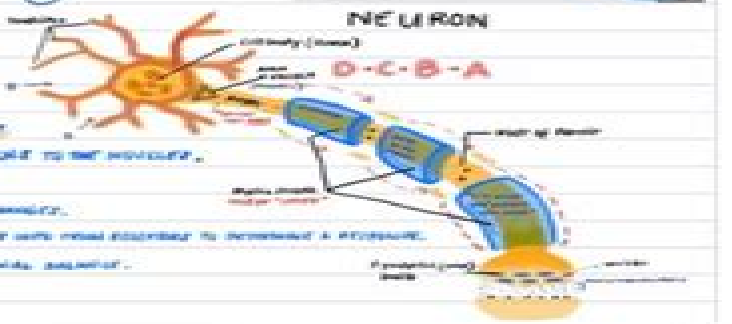
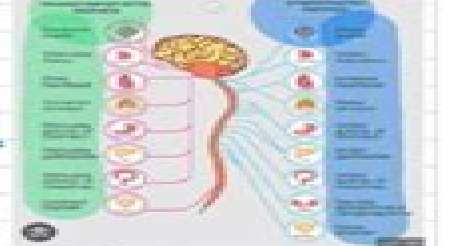


LONGITUDINAL FURROWS

CONVOLUTIONS

- FOLDING OF THE SURFACE
- INCREASES SURFACE AREA

- ANSWERS:
1. SOMATIC NERVOUS SYSTEM
 2. AUTONOMIC NERVOUS SYSTEM



Anatomy Of The Brain Lecture Notes

Valentino Braitenberg, Almut Schüz



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