

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. 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, NOT THAT INVOLVED MATHS)
7. DESCRIBE THE ROLE OF EACH OF THE THREE PARTS OF THE NEURAL FEEDBACK LOOP.

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

"LEAVING" CNS

↳ going to EFFECTORS

"BODY"

SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY MOVABLE

AUTONOMIC MOTOR

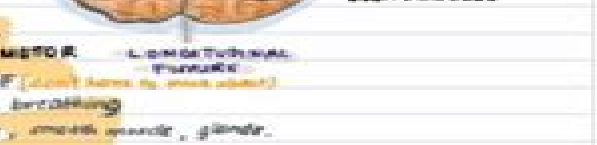
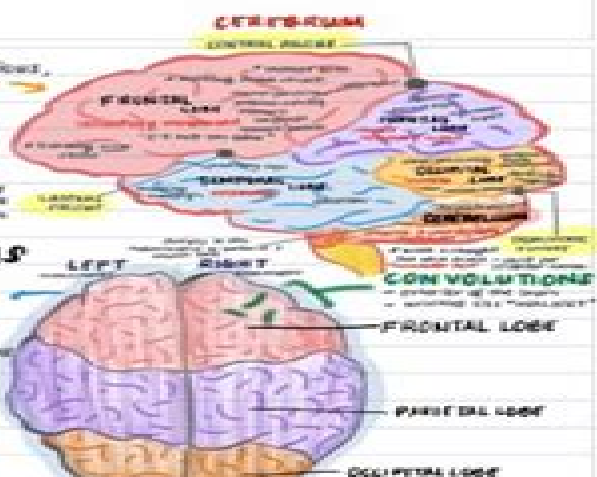
↳ INAWARE OF (don't have to think about)
- HEART BEAT, BREATHING
↳ CARDIAC MUSCLE, smooth muscle, glands.



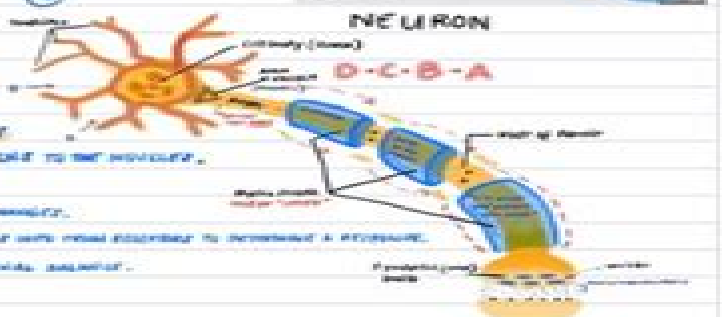
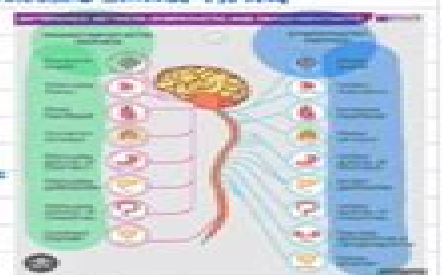
1. ACTION POTENTIALS ARE NERVE SIGNALS
- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (1/2 m/s) AS A WAVE OF ELECTRICAL CHARGE, TOWARDS THE SYMPATHETIC END BULB.

2. MYELIN IS AN INSULATING LAYER THAT SURROUNDS THE AXON. IT IS VITAL FOR THE CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL TREES. SLOW 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 CHANGE IN PHYSICAL/ CHEMICAL ENVIRONMENT.
- > CONTROL CENTER (AUTONOMIC CNS): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.
- > EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.
(i.e. CONSCIOUS (MIND) AS BODY'S TEMPERATURE REGULATOR)



1. SENSORY INPUT SYSTEM
2. AUTONOMIC NERVOUS SYSTEM



SUMMARY:

THE NERVOUS SYSTEM IS A COMPLEX NETWORK OF NEURONS THAT COORDINATE AND COORDINATE 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

Luiz Moutinho, Moran Cerf



Anatomy Of The Brain Lecture Notes:

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