

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:

- WHICH DIVISION OF YOUR NERVOUS SYSTEM CAN YOU CONTROL?
- WHAT IS THAT DIVISION CALLED?
- WHICH DIVISION OF YOUR NS IS NOT UNDER YOUR CONTROL? (examples)
- WHAT IS THAT 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?
(BKA: MYELIN SHEATH INVOLVED IN SIGNALING)
- 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 MOVABLE

AUTONOMIC MOTOR

→ DATA BASE OF (LOW) LEVELS OF (MOSTLY) AUTONOMIC CONTROL
- HEART RATE, BREATHING
→ CARDIAC MUSCLE, SMOOTH MUSCLE, GLANDS

SOMATIC NS

- PROPRICEPTION
- FINE MOVEMENT

VISCERAL NS

- INTERNAL ORGANS
- BLOOD VESSELS



⑤ 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 OF THE AXON.

⑥ 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 EFFECTORS.

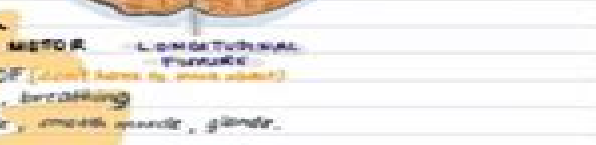
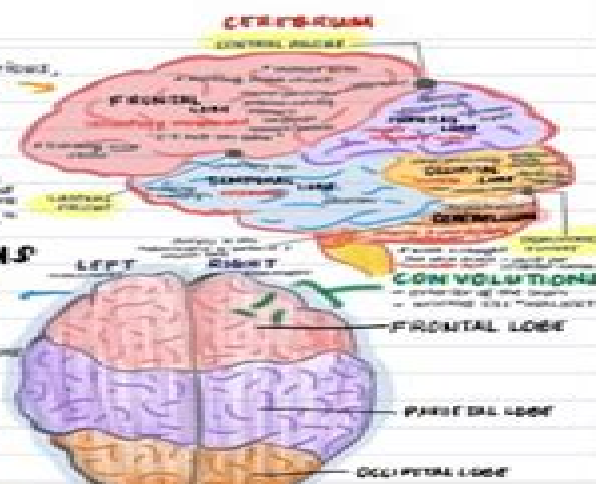
⑦ NEURAL FEEDBACK LOOP: VITAL FOR BODY'S HOMEOSTASIS!

→ RECEPTOR: DETECTS CHANGE IN (INTERNAL/EXTERNAL) ENVIRONMENT.

→ CONTROL CENTER (AUTONOMIC NS): RECEIVES INFORMATION FROM RECEPTOR TO DETERMINE A RESPONSE.

→ EFFECTOR: EXECUTES A RESPONSE TO RESTORE BODY'S HOMEOSTASIS.

(E.G. CONSCIOUSLY CHOOSING TO DRINK TO REHYDRATE YOURSELF)



ANSWERS:

① SOMATIC NERVOUS SYSTEM

② AUTONOMIC NERVOUS SYSTEM

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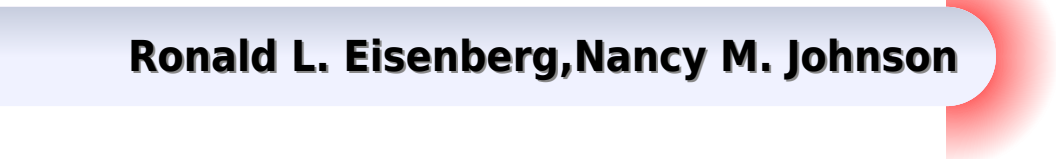
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