

NERVOUS SYSTEM A+P

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 FUNCTION OF NEURONS?
(BKA: HOW DOES IT IMPROVE THEM?)
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 CARRY COMMUNICATION AND COORDINATION WITHIN THE BODY. BASICALLY, DIVIDING DIFFERENT AREAS OF THE BODY INTO SENSORY 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"
PNNS - 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

"LEARNING" CNS

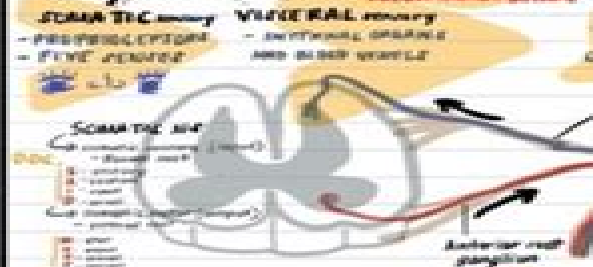
→ going to EFFECTORS

"BODY"

SOMATIC MOTOR
- SKELETAL MUSCLE
- VOLUNTARILY CONTROLLED

AUTONOMIC MOTOR

→ DATA BASE OF (CNS) HAVE TO MAKE ABOUT
the BODY STATE, breathing
→ Cardiac muscle, smooth muscle, glands.



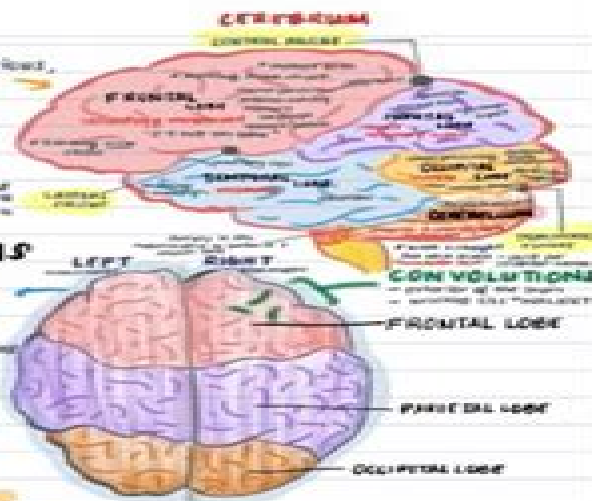
⑤ ACTION POTENTIALS ARE NERVE SIGNALS

- GENERATED IN THE AXON HILLOCK, FROM THERE,
- THEY TRAVEL DOWN THE AXON (CARRY UP BECAUSE OF IONIC CHARGE), TOWARDS THE SYMPATHETIC END BULB.

⑥ MYELIN IS AN INSULATING LAYER THAT SERVES AS PROTECTION FOR THE AXON. IT IS VITAL FOR THE RAPID CONDUCTION OF ACTION POTENTIALS (ELECTRICAL IMPULSES) ALONG AXONAL FIBERS. SOURCE AND EFFICIENT TRANSMISSION OF ACTION POTENTIALS IS NECESSARY FOR THE FUNCTIONALITY OF NEURONS. IT FACILITATES RAPID 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 CNS): RECEIVES INFORMATION AND DECIDES HOW TO RESPOND TO A STIMULUS.
- EFFECTOR: EXECUTES A RESPONSE TO ACHIEVE BODY'S HOMEOSTASIS.
- (E.G. CONSCIOUS (MIND) AS BODY'S HOMEOSTATIC REGULATOR)



ANSWERS:
① SOMATIC NERVOUS SYSTEM
② AUTONOMIC NERVOUS SYSTEM



Biology Nervous System Guide Answers

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