**Neurons – Self-check Total /25**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Label the following neuron.

D

A

 

C

B

E

F

G

 \_\_\_\_ myelin sheath \_\_\_\_ axon

 \_\_\_\_ nucleus \_\_\_\_ terminal knob

 \_\_\_\_ cell body \_\_\_\_ node of Ranvier

 \_\_\_\_ dendrite

1. Sensory neurons are also known as \_\_\_\_\_\_\_\_\_\_\_\_\_ neurons.
2. Motor neurons are also known as \_\_\_\_\_\_\_\_\_\_\_\_\_ neurons.
3. Fiber bundles located in the PNS are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Fiber bundles located in the CNS are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Nerves that contain both motor nerve fibers and sensory nerve fibers are called \_\_\_\_\_\_\_\_\_ nerves.

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Nerve Impulse

1. Inside a nerve cell, there is a higher concentration of \_\_\_\_\_ and outside of the cell there is a higher concentration of \_\_\_\_\_\_\_\_\_. This is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. A stimulus, which can be chemical or mechanical, can cause \_\_\_\_\_\_\_ to enter the cell and cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. This causes an electrical impulse known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ follows when \_\_\_\_\_\_\_ channels open allowing \_\_\_\_\_ to leave.
5. When Na+ and K+ concentrations are restored, the nerve cell returns to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Myelinated axons

1. Myelin is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that coats some axons.
2. This can speed up the nerve impulse because the action potential can \_\_\_\_\_\_\_\_ from node to node.
3. This is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ conduction.

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