

HBS 2.1 and 2.2 Study Guide

Name: _____

2.1

- ID the parts of the brain that have the following functions:

Vision:

Muscle coordination:

Anger and sadness:

Language Understanding:

Speech Production:

Smell:

Long-term memory:

Short-term memory:

Blood pressure regulation:

Problem-solving:

Breathing:

Happiness:

Balance:

Movement:

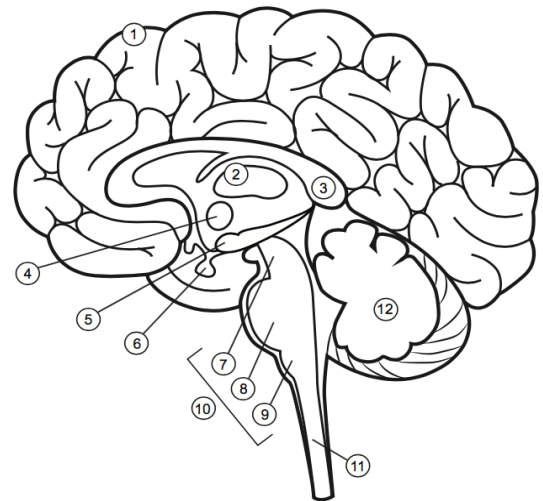
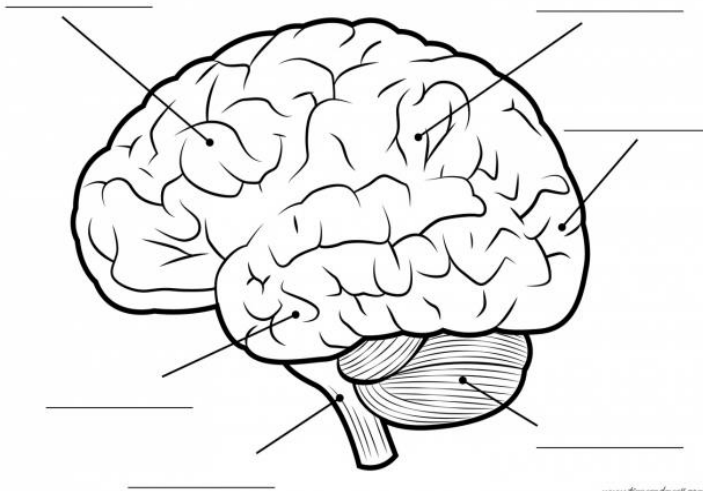
Hearing:

Taste:

Sleeping and waking:

“Fight or Flight” response in times of stress:

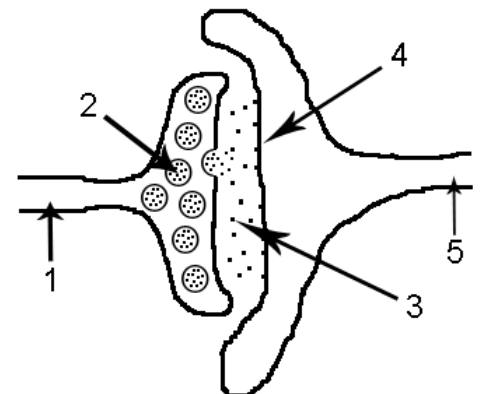
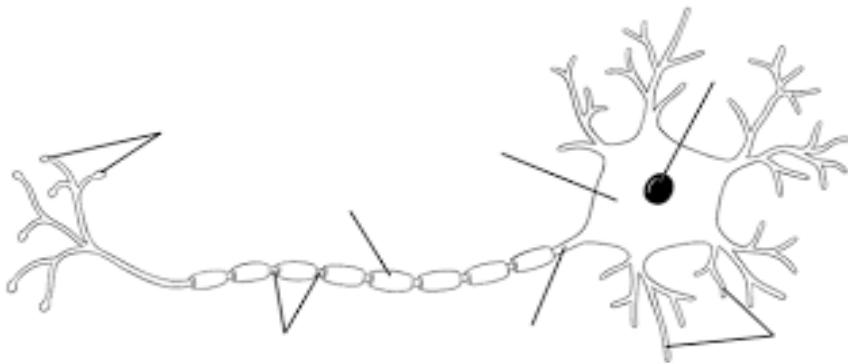
- Label the following diagrams:



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2.2

- Label the neuron structures and include functions



2.1 and 2.2 Review Questions:

- What are the different types of neurons? What is the function of each type?
- What is an action potential? What are the 4 stages of an action potential? Draw and describe what happens during each stage/step of an action potential. What ions are involved in creating an action potential?
- List the steps of communication between two neurons through the synaptic cleft? What ions and chemicals are needed for this communication to occur?
- What is a neurotransmitter? Give two specific examples and how they function.
- How do drugs impact how neurons communicate? Give an example.
- Why does reaction time differ in reflex, such as a knee-jerk reflex, and voluntary actions, such as moving your leg after hearing a sound?
- What is a reflex arc?
- What is the PNS? What are the 2 divisions of the PNS? Explain how each part works.
- What is the Parasympathetic and Sympathetic Nervous System?
- Identify 2 brain disorders. What structures are impacted? What is the cause of these disorders?