Sample questions

An action potential is triggered by:
   a. hyperpolarization of the cell membrane
   b. depolarization of the cell membrane
   c. an increase of sodium ions outside the cell
   d. an increase of chloride ions inside the cell

Which structure in the brain is considered to be a relay station?
   a. Hippocampus
   b. Cerebellum
   c. Basal Ganglia
   d. Thalamus

Phineas Gage is famous for having survived an iron rod shooting through his head. *Thou shalt not* try this at home...) Which of the following functions was most impaired after the accident?
   a. Memory of recent events
   b. Language comprehension
   c. Judgment and decision making
   d. Language production
Top-Down processing refers to:
   a. The influence of experience on perception
   b. The influence of perception on experience
   c. The influence of the brain on the body
   d. The influence of the body on the brain

A neuron’s receptive field is:
   a. The part of the neuron that receives input from other neurons
   b. The part of the sensory world that the neuron responds to
   c. The part of the brain to which the neuron is connected
   d. The field which fMRI records

As mentioned in Dr. Chiba’s lecture, the brain of which of the following animals is most similar to the human brain?
   a. Dog
   b. Dolphin
   c. Rat
   d. Rabbit

In the excerpt from the reading assignment, *The Man Who Mistook his Wife for his Hat*, the man who sustained injuries from a car accident and could no longer recognize faces, including his own, suffered from what disorder?
   a. Aphasia
   b. Apraxia
   c. Alexia
According to the article, “The Mirror Neuron System”, what is what ability depends on the observations of others’ actions?

- a. Memory
- b. Intelligence
- c. Reading
- d. Imitation learning

Brain damage is less problematic for children than adults. This is mainly because:

- a. Children have more time to learn to compensate for brain damage
- b. Children still go to school, which "exercises" their brains into recovery
- c. Children's brains are more flexible and able to reorganize themselves
- d. Children's brains can grow new neurons

A neuron in cortex receives input from roughly how many other neurons?

- a. 10
- b. 100
- c. 1000
- d. 10000