Nerve Cells Outline (N-2A)

Read pages 465-467 of Middle School Life Science (Kendall/Hunt) and fill in this outline.

I. Nervous System: A control system made up of the ____________, ____________, and ____________.
   A. Creates actions such as ____________ and ____________.
   B. Receives ____________ from the outside of the body.
      1. Stimuli are ____________ or ____________ that cause an organism to react, sending ____________ messages to parts of the body, causing them to respond.
   C. Nervous system is made up of ____________.
      1. ____________ are ____________ cells that send electrical messages.
      2. The central part of a neuron is called a ____________, off of which many ____________ extend.
      3. The shorter fibers are called ____________.
      4. The single long fiber on the other side is called an ____________.
         a. ____________ carry messages to the cell body.
         b. ____________ carry messages away from the cell body.
         c. These messages are called ____________.
         d. Axons and dendrites are covered by a ____________ to prevent ____________ from jumping.
   D. ____________ is the space between two neurons that the impulse is sent through.
      1. Impulses move when ____________ are released from the end of the ____________ that move across the synapse to the dendrites of the next nerve cell.
   E. Neurons vary in ____________, ____________, number of ____________, and ____________ size.
   F. There are three kinds of neurons.
      1. ____________ neurons carry impulses from ____________ the body to the spinal cord or brain.
      2. ____________ neurons carry impulses from the spinal cord or brain to the ____________.
      3. ____________ neurons inside spinal cord and the brain. These link ____________ and ____________ neurons.

NEXT, complete the review questions on page 467, in complete sentences. (Please staple together this outline and your answers to the review questions.)