The Nervous System: Anatomy Review

1. Neurons communicate with other neurons and stimulate both ___________ and ______________.

2. Match the following parts of the neuron and their function:
   - Dendrites: conductive region; generates an action potential
   - Soma (cell body): input area; receives signals from other neurons
   - Axon: input area; main nutritional and metabolic area

3. Signals from other neurons are received at junctions called ________________, located primarily on the _____________ and ________________, the receptive and integrative region of the neuron.

4. The area where the axon emerges from the soma is called the ____________ _____________.
   This is also the area where the outgoing signal, called a/an _____________ _____________ is generated.

5. An axon can branch, forming axon _________________.
   At the end, axons branch to form many axon _________________.

6. What support cell forms the myelin sheath? ________________
   Myelin is found around which part of the neuron? ________________
   The tightly wound cell membrane around the axon forms the myelin sheath and acts as ________________.

7. The gaps between the Schwann cells, called the __________________________, are essential for the conduction of the action potential.

8. The most common central nervous system neuron, which was examined in this exercise, is called a/an ____________________ neuron.
   In the quiz section, you labeled a/an ____________________ neuron, which is found in the peripheral nervous system.

9. Neurons have (only one or many) axon/axons.
   Axons are (never or frequently) branched.
   Dendrites have (only one or many) branch/branches.