

Worksheet for Nervous Systems
Biology 100C

1. What are the three main functions of a nervous system?
Sensory Input, Integration, Motor Output
2. What structures comprise the Central Nervous System (CNS)?
brain and spinal nerve cord in vertebrates
3. Motor output is the conduction of signals from the ____CNS____ to the
____**effector cells such as muscles**____.
4. Signals are conducted by ____**nerves**____ which are bundles of
____**neurons**____ wrapped in connective tissue.
5. Sensory and motor neurons are collectively called the ____**peripheral nervous system**____.
6. The structural and functional unit of the nervous system is the
____**neuron**____.
7. What are the four main parts of a neuron?
Cell body, dendrites, axon, synaptic terminals
8. The site of contact between a synaptic terminal of a neuron and a target, such as another neuron, a muscle cell, or a gland, is called a ____**synapse**____.
9. What are the cells called that lie on each side of a synapse?
pre-synaptic cell and post-synaptic cell
10. The simplest type of nerve circuit is termed a ____**reflex arc**____.
11. What is the minimum number of neurons that can make up a “reflex arc”, and what would these neurons be?
2, there must be at least one sensory neuron and at least one motor neuron
12. What are “interneurons”?
these are neurons within the CNS