1. (3pts) For each of the following brain structures write the letter that corresponds to the best description of its function. (There is only one answer for each brain structure.)

_______ amygdala
_______ basal ganglia
_______ cerebellum
_______ hippocampus
_______ hypothalamus
_______ medulla oblongata
_______ pituitary gland
_______ tectum
_______ thalamus

a) emotional processing, particularly fear and anger
b) early visual and auditory processing; important for “blindsight”
c) sensory “relay station”
d) regulates survival and bodily needs
e) memory consolidation
f) fine motor control; unconscious motor coordination
g) control of vital functions such as breathing and heart rate
h) conscious motor control and coordination
i) regulates hormone release

2. (1pt) Which of the following is not a structure that provides protection for the nervous system?

a) meninges  
 b) cingulate  
 c) skull   
 d) vertebrae  
 e) ventricles

3. (1pt) A major function of astrocytes is to

a) provide physical support for neurons.  
 b) form the lining of fluid-filled spaces.  
 c) produce myelin.  
 d) connect motor and sensory neurons.

4. (1pt) Which of the following is not a valid cerebral cortex lobe-function pair?

a) parietal lobe – spatial processing
b) temporal lobe – audition
c) temporal lobe – visual object processing
d) occipital lobe – motor control
e) frontal lobe – social inhibition

5. (1pt) _______ and _______ are the glia that form myelin sheath in the PNS and the CNS.

a) Schwann cells and oligodendrocytes
b) astrocytes and microglial cells
c) astrocytes and oligodendrocytes
d) Schwann cells and microglial cells
6. (1pt) The two main divisions of the nervous system are the
   a) central nervous system and peripheral nervous system
   b) sympathetic nervous system and parasympathetic nervous system
   c) autonomic nervous system and somatic nervous system
   d) brain and spinal cord

7. (3pts) Draw prototypical neuron and label the following parts: axon hillock, cell body, axon, dendrites, nucleus, terminal bouton.