Biological Bases of Behavior Critical Thinking Questions

1. Create a scenario/situation that involves your sympathetic nervous system becoming activated and then your parasympathetic nervous system being activated.

2. Draw a neuron below and label the five parts (dendrites, cell body, axon, myelin sheath, axon terminal branch).

3. The doctor taps your knee with a hammer and your leg juts out without your control. How does this reflex work? Explain the role of the sensory neurons, spinal cord, interneurons, and motor neurons.

4. What were your results on the left brain/right brain surveys we took in class? Do you agree or disagree with these results – why? What characteristics are true about you and which do not match?
5. In the chart below, list each of the brain structures present in the three main brain systems.

<table>
<thead>
<tr>
<th>BRAINSTEM</th>
<th>LIMBIC SYSTEM</th>
<th>CEREBRAL CORTEX</th>
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6. Choose one of the four brain scanning methods discussed in class that you feel is the most interesting and explain why.

7. How does someone suffering from aphasia to Broca’s area differ from someone suffering from aphasia to Wernicke’s area?

8. What is the “master gland?” Why is it called that? Explain the role/function of this gland.