1. (1 pt) According to the James-Lange theory, we experience
   a) the physiological changes, then the emotion.
   b) the emotion, then the physiological changes.
   c) the physiological changes and the emotions simultaneously.
   d) differing emotional responses depending on our hardiness.

2. (1 pt) The major structures of the Papez circuit are the
   a) thalamus, frontal lobe, parietal lobe, and hippocampus.
   b) frontal lobe, midbrain, and brain stem.
   c) thalamus, hypothalamus, cingulate gyrus, and hippocampus.
   d) hypothalamus, cingulate gyrus, cerebellum, and amygdala.

3. (0.5 pt) The Papez circuit has come to be known as the __________ system.

4. (2 pts) Provide a cognitive ability that fits in each quadrant:

<table>
<thead>
<tr>
<th></th>
<th>Processed by the <em>left hemisphere</em></th>
<th>Processed by the <em>right hemisphere</em></th>
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<tbody>
<tr>
<td><strong>Language ability</strong></td>
<td></td>
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<tr>
<td><strong>Spatial ability</strong></td>
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</table>

5. (1 pt) What does research with children who have right or left hemisphere brain damage tell us about lateralization?

6. (1pt) What are mirror neurons?
7. (3 pts) On the following drawing label: *central sulcus, primary motor cortex, supplementary motor area, premotor cortex, dorsolateral prefrontal cortex, primary somatosensory cortex*

8. (1.5 pt) The following instructions apply for the labels you just wrote in problem #6 above.

- Put a circle around the label of the area important for making motor decisions; the “top executive”.
- Put rectangles around those two areas important for planning voluntary movement and integrating with other areas of the brain such as visual and somatosensory cortex.
- Put a star by the area that directly sends signals to groups of muscles.